John & Kernick
FORM P1

REPUBLIC OF SOUTH AFRICA
PATENTS ACT, 1978
APPLICATION FOR A PATENT AND
ACKNOWLEDGEMENT OF RECEIPT
Section 30(1) - Regulation 39

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PATENT & TRADEMARK

The grant of a Patent is hereby requested by the undermentioned applicant(s) on the present application filed in duplicate

07 Official application No.	22 Lodging date	J&K Reference
873821	27th May, 1987	AP 26120/PJW

71 Full Name(s) of applicants:
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54 Title of Invention
USE OF AMIDES FOR IMPROVING THE CROP PLANT TOLERANCE OF HERBICIDALLY ACTIVE SULPHONYLISO(THIO)UREA DERIVATIVES

XX	The applicant claims priority as set out in the accompanying form P2		
	This application is for a Patent of Addition to Patent/Application No.	24 01	
	This application is a fresh application in terms of S 37 and based on application no.	21 01	
	This application is accompanied by:		
	1a A single copy of a provisional specification of pages		
XX	1b Two copies of a complete specification of 175 pages		
	2a Informal drawings of sheets		
	2b Formal drawings of sheets		
XX	3. Publication particulars and abstract (form P8 in duplicate)		
	4. A copy of Figure of the drawings for the abstract		
XX	5. Assignment of invention (from the inventors) or other evidence of title		
XX	6. Certified priority documents (1 documents)		
XX	7. Translation of priority documents (1 documents)		
	8. Assignment of priority rights		
	9. A copy of the form P2 and the specification of S.A Patent Application	21 01	
XX	10. A declaration and power of attorney on form P3		
	11. Request for ante-dating on form P4		
	12. Request for classification on form P9		
	13a Request for delay of acceptance on form P4		
	13b		

74 Address for Service: JOHN & KERNICK, PRETORIA.

Date 27th May, 1987

For the Applicant

The duplicate will be returned to the applicant for service as proof of lodging but is not valid unless endorsed with official stamp.

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John & Kernick
FORM P7

REPUBLIC OF SOUTH AFRICA
PATENTS ACT

COMPLETE SPECIFICATION

(Section 30(1) - Regulation 28)

21	01	Official application No.	22	Lodging date	J&K Reference
		873821		27th May, 1987	AP 26120/PJW

51	International classification
	A01N

71 Full Name(s) of Applicant(s)

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72 Full name(s) of Inventor(s)

Theodor PFISTER, Dieter FEUCHT, Robert R. SCHMIDT

54 Title of Invention

USE OF AMIDES FOR IMPROVING THE CROP PLANT TOLERANCE OF HERBICIDALLY ACTIVE SULPHONYLISO(THIO)UREA DERIVATIVES

The invention relates to the use of known amides as antidotes for improving the crop plant tolerance of certain herbicidally active sulphonyliso(thio)urea derivatives.

The invention furthermore relates to new active compound combinations which consist of known amides and known herbicidally active sulphonyliso(thio)urea derivatives and have particularly good selectively herbicidal properties.

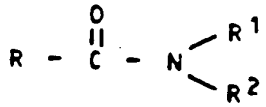
In the present connection, "antidotes" ("safeners") are to be understood as substances which are capable of specifically antagonizing the harmful effects of herbicides on crop plants, that is to say of protecting the crop plants, without thereby noticeably influencing the herbicidal action on the weeds to be combated.

It is known that numerous herbicidally active sulphonyliso(thio)urea derivatives cause damage to a greater or lesser degree on crop plants when used for combating weeds in maize and other crops.

It is furthermore known that numerous amides are suitable for reducing damage which can be caused to crop plants by herbicidal active compounds, in particular thiolcarbamates and acetanilides (compare, for example, DE-OS (German Published Specification) 2,218,097, DE-OS (German Published Specification) 2,828,265, U.S. Patent Specification 4,021,224, U.S. Patent Specification 4,124,376 and U.S. Patent Specification 4,137,070).

However, the applicability of these substances as antidotes depends to a large degree on the particular herbicidal active compound.

It has now been found that the known amides of the formula (I)



(I)

in which

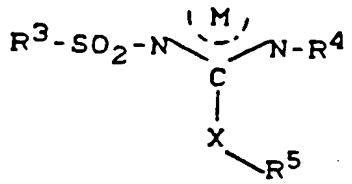
R represents hydrogen or halogen, or represents in each case optionally substituted alkyl, alkenyl, alkinyl, cycloalkyl, cycloalkenyl, bicycloalkyl, bicycloalkenyl, tricycloalkyl, aryl, heteroaryl, alkoxy, alkenyloxy, alkinyloxy, aryloxy, carbamoyl, alkoxycarbonyl or dithiolanyl and

R^1 and R^2 independently of one another represent hydrogen, or represent formyl, or represent chlorosulphonyl, or represent in each case optionally substituted alkyl, alkenyl, alkadienyl, alkinyl, cycloalkyl, cycloalkenyl, alkoxy, alkylthio, alkylcarbonyl, alkoxycarbonyl, phenyl, phenoxy, phenylsulphonyl or heterocyclyl, or represent amino, or represent alkylideneimino, or represent optionally substituted alkylcarbonylamino or di-(alkylcarbonyl)amino, or

R^1 and R^2, together with the nitrogen atom to which they are bonded, represent in each case optionally substituted alkylideneimino, pyrrolidinyl, piperidinyl, piperidonyl, perhydroazepinyl, perhydroazocinyl, dihydropyrazolyl, dihydro- or tetrahydropyridinyl, azabicyclononyl, morpholinyl, perhydro-1,3-oxazinyl, 1,3-oxazolidinyl, 1,4-piperazinyl, perhydro-1,4-diazepinyl, dihydro-, tetrahydro- or perhydroquinolyl or -isoquinolyl, indolyl or dihydro- or perhydroindolyl,

are outstandingly suitable as antidotes for improving the crop plant tolerance of herbicidally active sulphonyliso-(thio)urea derivatives of the general formula (II)

(II)



in which

R^3 represents an optionally substituted radical from the series comprising alkyl, aralkyl, aryl and heteroaryl,

R^4 represents a six-membered aromatic heterocyclic radical which is optionally substituted and/or optionally fused and which contains at least one nitrogen atom,

R^5 represents an optionally substituted aliphatic, araliphatic, aromatic or heteroaromatic radical,

X represents oxygen or sulphur and

M represents hydrogen or one equivalent of a metal,

and of adducts of compounds of the formula (II) and strong acids.

It has furthermore been found that the new active compound combinations consisting of

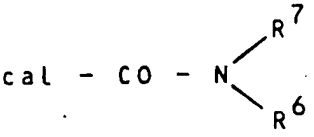
- an amide of the formula (I) and
- at least one herbicidal sulphonyliso(thio)urea derivative of the formula (II)

are outstandingly suitable for selectively combating weeds in crops of useful plants.

Surprisingly, the crop plant tolerance of herbicidal sulphonyliso(thio)urea derivatives of the formula (II) is decidedly improved by also using amides of the formula (I). It is furthermore unexpected that the active compound combinations according to the invention of an amide of the formula (I) and a herbicidal sulphonyliso-(thio)urea derivative of the formula (II) have better selective properties than the active compounds in question by themselves.

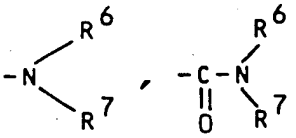
Formula (I) provides a general definition of the

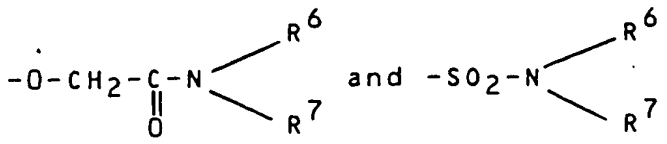
amides which can be used according to the invention. Preferred amides of the formula (I) are those in which

R represents hydrogen, fluorine, chlorine or bromine; or represents the radical 

wherein

R^6 and R^7 are identical or different and each represent hydrogen, or represent in each case straight-chain or branched alkyl, alkenyl, alkinyl or cyanoalkyl with in each case up to 8 carbon atoms; or furthermore

R represents straight-chain or branched alkyl which has 1 to 20 carbon atoms and is optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: hydroxyl, halogen, in particular fluorine, chlorine, bromine or iodine, cyano, cyanato and thiocyanato; in each case straight-chain or branched alkoxy, alkylthio, alkylcarbonyl, alkylcarbonyloxy, alkoxycarbonyl, halogenoalkoxy, halogeno-hydroxy-alkoxy, halogenoalkylcarbonyl, halogenoalkoxycarbonyl, halogenoalkylcarbonyloxy and halogenoalkenylcarbonyloxy with in each case up to 6 carbon atoms and if appropriate up to 9 identical or different halogen atoms, in particular fluorine, chlorine or bromine; and also phenyl, phenoxy, phenylthio and thienyl, in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen, lower alkyl and/or lower alkoxy; and furthermore cycloalkyl with 3 to 7 carbon atoms and the radicals 



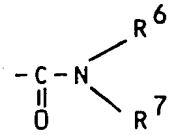
wherein

R^6 and R^7 in each case have the abovementioned meanings; or furthermore

R represents straight-chain or branched alkenyl which has 2 to 8 carbon atoms and is optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: hydroxyl, halogen, in particular fluorine, chlorine or bromine, straight-chain or branched alkoxycarbonyl with up to 6 carbon atoms and phenyl and phenoxy, in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen, in particular fluorine, chlorine or bromine, lower alkyl and lower alkoxy; or furthermore

R represents straight-chain or branched alkinyl with 2 to 8 carbon atoms; or furthermore

R represents cycloalkyl, cycloalkenyl, bicycloalkyl, bicycloalkenyl or tricycloalkyl with in each case up to 12 carbon atoms and in each case optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: straight-chain or branched alkyl with 1 to 4 carbon atoms, phenyl and the radical

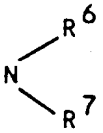


wherein

R^6 and R^7 have the abovementioned meaning; or furthermore

R represents aryl which has 6 to 10 carbon atoms and is optionally monosubstituted or polysubstituted by identical or different substituents,

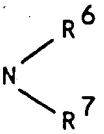
possible substituents being: halogen, in particular fluorine, chlorine, bromine or iodine, nitro, carboxyl - also in the form of the carboxylate anion - in each case straight-chain or branched alkyl, alkoxy, halogenoalkyl, alkylcarbonyl, halogenoalkylcarbonyl and halogenoalkylcarbonylamino with in each case up to 4 carbon atoms and if appropriate up to 5 identical or different halogen atoms, in particular fluorine, chlorine or bromine,

and the radical 

wherein

R^6 and R^7 have the abovementioned meaning,

or furthermore

R represents furyl, thienyl, pyridyl or dithiolanyl, in each case optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: halogen, in particular fluorine, chlorine or bromine, straight-chain or branched alkyl with up to 6 carbon atoms and the radical 

wherein

R^6 and R^7 have the abovementioned meaning,

or finally

R represents in each case straight-chain or branched alkoxy, alkenyloxy, alkinyloxy, alkoxycarbonyl or phenoxy, in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising phenyl and halogen, in particular fluorine, chlorine or bromine, and

R^1 and R^2, which are identical or different, independently of one another, represent hydrogen,

formyl or chlorosulphonyl, or represent phenyl, phenoxy or phenylsulphonyl, in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen, in particular fluorine, chlorine or bromine, and lower alkyl, or furthermore represent straight-chain or branched alkyl which has 1 to 12 carbon atoms and is optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: hydroxyl, mercapto, cyano and halogen, in particular fluorine, chlorine, bromine or iodine; and in each case straight-chain or branched alkoxy, alkoximino, alkylcarbonyl, alkylcarbonyloxy, alkoxycarbonyl, alkoxycarbonyloxy, alkylthiocarbonyloxy, halogenoalkylcarbonyloxy and alkylsulphonyloxy with in each case up to 6 carbon atoms and, where appropriate, up to 5 identical or different halogen atoms, in particular fluorine, chlorine or bromine; and furthermore alkylaminocarbonyloxy, dialkylaminocarbonyloxy, alkenylaminocarbonyloxy and dialkenylaminocarbonyloxy with in each case up to 6 carbon atoms in the individual straight-chain or branched alkyl or alkenyl parts; and furthermore cycloalkylaminocarbonyloxy with 3 to 7 carbon atoms in the cycloalkyl part, and phenylaminocarbonyloxy which is optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen, in particular fluorine, chlorine or bromine, and lower alkyl, and furthermore cycloalkyl which has 3 to 7 carbon atoms and is optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen, in particular fluorine, chlorine or bromine, and lower alkyl, phenyl which

is optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising nitro, halogen, in particular fluorine, chlorine or bromine, lower alkyl and dioxyalkylene, furyl, tetrahydrofuryl, pyrazolyl, oxazolyl, isoxazolyl, thiazolyl, thiadiazolyl, oxadiazolyl, pyridyl and pyrimidinyl, in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen, in particular fluorine, chlorine or bromine, and lower alkyl, and amino which is optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising in each case lower alkyl, halogenoalkylcarbonyl, halogenophenoxyalkylcarbonyl and halogenoalkylcarbonylaminoalkyl; or furthermore

R^1 and R^2 represent straight-chain or branched alkenyl, alkadienyl or alkinyl with in each case 3 to 8 carbon atoms and in each case optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: halogen, in particular fluorine, chlorine or bromine, cyano and in each case straight-chain or branched alkoxy, alkylcarbonyl and alkoxycarbonyl with in each case up to 6 carbon atoms; or furthermore

R^1 and R^2 represent cycloalkyl or cycloalkenyl with in each case 3 to 8 carbon atoms and in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen, in particular fluorine, chlorine or bromine, and lower alkyl; or furthermore represent piperidyl, pyridyl, thienyl, oxazolyl, isoxazolyl, thiazolyl, oxadiazolyl, thiadiazolyl, fluorenyl, phthalimidoyl or dioxanyl, in

each case optionally monosubstituted or polysubstituted by identical or different substituents and/or benzo-fused, possible substituents being: halogen, in particular fluorine, chlorine or bromine, cyano and in each case straight-chain or branched alkyl and alkanediyl with in each case 1 to 4 carbon atoms; or furthermore R^1 and R^2 represent in each case straight-chain or branched alkoxy, alkylthio, alkylcarbonyl, alkoxycarbonyl, halogenoalkylcarbonyl or halogenoalkoxycarbonyl with in each case up to 6 carbon atoms and, where appropriate, up to 5 identical or different halogen atoms, in particular fluorine, chlorine or bromine; or furthermore R^1 and R^2 represent amino or alkylideneimino which is optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: in each case straight-chain or branched alkyl, alkenyl, alkinyl, alkylcarbonyl and halogenoalkylcarbonyl with in each case up to 8 carbon atoms and, where appropriate, up to 5 identical or different halogen atoms, in particular fluorine, chlorine or bromine; or R^1 and R^2, together with the nitrogen atom to which they are bonded, represent alkylideneamino, pyrrolidinyl, piperidinyl, piperidonyl, perhydroazepinyl, perhydroazocinyl, dihydropyrazolyl, dihydro- or tetrahydropyridyl, azabicyclononyl, morpholinyl, perhydro-1,3-oxazinyl, 1,3-oxazolidinyl, 1,4-piperazinyl, perhydro-1,4-diazepinyl, dihydro-, tetrahydro- or perhydroquinolyl or -isoquinolyl, indolyl or dihydro- or perhydroindolyl, in each case optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: hydroxyl, halogen (in particular fluorine, chlorine or bromine),

cyano and formyl; and in each case straight-chain or branched, where appropriate divalent alkyl, alkanediyl, alkoxy, dioxyalkylene, alkylcarbonyl, alkoxycarbonyl and halogenoalkylcarbonyl with in each case up to 8 carbon atoms, in each case straight-chain or branched alkylamino and dialkylamino with in each case up to 4 carbon atoms in the individual alkyl parts, phenyl, naphthyl, pyridyl and piperidinyl, in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen, in particular fluorine, chlorine or bromine, nitro and in each case lower alkyl, halogenoalkyl, alkoxy, alkylcarbonyl or alkoxycarbonyl, and straight-chain or branched cyclopropylalkyl, cyclohexylalkyl, piperidinylalkyl, phenylalkyl and phenylalkenyl with up to 4 carbon atoms in the particular alkyl or alkenyl parts and in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen, in particular fluorine, chlorine or bromine, lower alkyl and halogenoalkylcarbonyl.

Particularly preferred amides of the formula (I) are those in which

R represents hydrogen or chlorine; or furthermore

R represents the radical $-CO-N\begin{matrix}R^6\\R^7\end{matrix}$

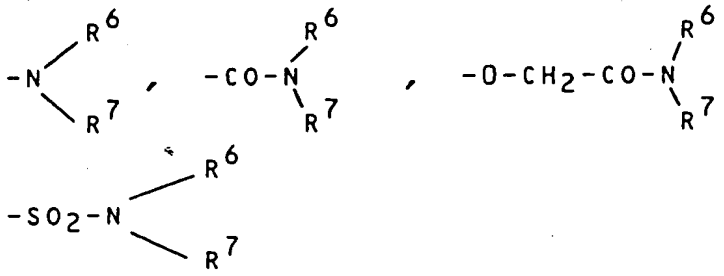
wherein

R^6 and R^7 are identical or different and independently of one another each represent hydrogen, methyl, ethyl, allyl, propargyl, but-1-in-3-yl, 3-methylbut-1-in-3-yl or 2-cyanoprop-2-yl; or furthermore

R represents straight-chain or branched alkyl with up to 15 carbon atoms; or furthermore

R represents straight-chain or branched halogenoalkyl with 1 to 6 carbon atoms and 1 to 9 identical or different halogen atoms, in particular fluorine, chlorine, bromine and iodine; or furthermore

R represents straight-chain or branched alkyl which has 1 to 6 carbon atoms and is mono-, di- or trisubstituted by identical or different substituents, possible substituents being: hydroxyl, fluorine, chlorine, bromine, cyano, cyanato, thiocyanato, methoxy, ethoxy, methylthio, ethylthio, acetyl, propionyl, acetoxy, propionyloxy, methoxycarbonyl, ethoxycarbonyl, 1,1,3,3-tetrachloro-2-hydroxyprop-2-yloxy, 1,1,1,3,3-pentachloro-2-hydroxyprop-2-yloxy, chloroacetyl, dichloroacetyl, chloroacetoxy, dichloroacetoxy, pentachlorobutadien-1-ylcarbonyloxy and phenyl, phenoxy, phenylthio and thienyl, in each case optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising chlorine, methyl and methoxy; and furthermore cyclopropyl, cyclopentyl and cyclohexyl; and the radicals



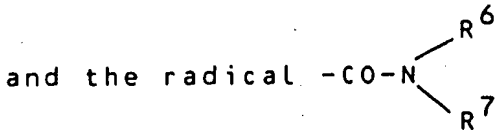
wherein

R^6 and R^7 are identical or different and in each case independently of one another represent hydrogen, methyl, ethyl, allyl, propargyl, but-1-in-3-yl, 3-methyl-but-1-in-3-yl or 2-cyanoprop-2-yl; or furthermore

R represents straight-chain or branched alkenyl which has 2 to 5 carbon atoms and is mono-, di- or trisubstituted by identical or different substituents, possible substituents being: hydroxyl, fluorine, chlorine, bromine, methoxycarbonyl, ethoxycarbonyl and phenyl and phenoxy, in each case optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising fluorine, chlorine, methyl and methoxy; or furthermore

R represents straight-chain or branched alkinyl with 2 to 5 carbon atoms; or furthermore

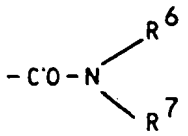
R represents cyclopropyl, cyclopentyl, cyclohexyl, cycloheptyl, cyclohexenyl, bicycloheptenyl, bicyclooctyl, bicyclononyl or tricyclodecyl, in each case optionally mono-, di-, tri-, tetra- or penta-substituted by identical or different substituents, possible substituents being: methyl, ethyl, phenyl

and the radical 

wherein

R^6 and R^7 are identical or different and in each case independently of one another represent hydrogen, methyl, ethyl, allyl, propargyl, but-1-in-3-yl, 3-methylbut-1-in-3-yl or 2-cyanoprop-2-yl, or furthermore

R represents phenyl which is optionally mono-, di- or trisubstituted by identical or different substituents, possible substituents being: fluorine, chlorine, bromine, iodine, nitro, methyl, ethyl, methoxy, ethoxy, carboxyl - also in the form of the carboxylate anion -, trifluoromethyl, chloroacetamido, dichloroacetamido and the radical



wherein

R^6 and R^7 are identical or different and in each case independently of one another represent hydrogen, methyl, ethyl, allyl, propargyl, but-1-in-3-yl, 3-methylbut-1-in-3-yl or 2-cyanoprop-2-yl; or furthermore

R represents furyl, thienyl, pyridyl or dithiolanyl, in each case optionally mono-, di- or trisubstituted by identical or different substituents, possible substituents being: chlorine, methyl, ethyl and the radical 

wherein

R^6 and R^7 are identical or different and in each case independently of one another represent hydrogen, methyl, ethyl, allyl, propargyl, but-1-in-3-yl, 3-methylbut-1-in-3-yl or 2-cyanoprop-2-yl; or finally

R represents methoxy, ethoxy, allyloxy, propargyloxy, butinyloxy, methoxycarbonyl, ethoxycarbonyl or phenyl, in each case optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising fluorine, chlorine, bromine and phenyl, and

R^1 and R^2, which are identical or different, independently of one another represent hydrogen, formyl or chlorosulphonyl, or represent phenyl, phenoxy or phenylsulphonyl, in each case optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising fluorine, chlorine, bromine or methyl; or furthermore represent straight-chain or branched alkyl

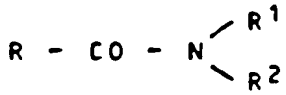
which has 1 to 8 carbon atoms and is optionally mono-, di- or trisubstituted by identical or different substituents, possible substituents being: hydroxyl, mercapto, cyano, fluorine, chlorine, bromine, methoxy, ethoxy, propoxy, butoxy, methoximino, ethoximino, acetyl, propionyl, acetoxy, propionyloxy, methoxycarbonyl, ethoxycarbonyl, methoxycarbonyloxy, ethoxycarbonyloxy, methylthiocarbonyloxy, ethylthiocarbonyloxy, chloroacetoxy, dichloroacetoxy, methylsulphonyloxy, ethylsulphonyloxy, methylaminocarbonyloxy, dimethylaminocarbonyloxy, ethylaminocarbonyloxy, diethylaminocarbonyloxy, propylaminocarbonyloxy, butylaminocarbonyloxy, allylaminocarbonyloxy, diallylaminocarbonyloxy and cyclohexylaminocarbonyloxy, and phenylaminocarbonyloxy which is optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising chlorine and methyl; and furthermore cyclopropyl, cyclopentyl, cyclohexyl and cycloheptyl, in each case optionally mono-, di-, tri-, tetra- or pentasubstituted by identical or different substituents from the group comprising chlorine and methyl; and phenyl which is optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising nitro, fluorine, chlorine, bromine, methyl and dioxymethylene, and furyl, tetrahydrofuryl, pyrazolyl, oxazolyl, isoxazolyl, thiazolyl, thiadiazolyl, oxadiazolyl, pyridyl and pyrimidinyl, in each case optionally mono- or disubstituted by identical or different substituents from the group comprising methyl, ethyl, propyl and chlorine; and amino which is optionally monosubstituted or disubstituted by identical or different substituents from the group comprising methyl, ethyl, chloroacetyl, dichloro-

acetyl, chlorophenoxyacetyl, dichloroacetamidomethyl and dichloroacetamidoethyl; or furthermore R^1 and R^2 represent straight-chain or branched alkenyl, alkadienyl or alkinyl with in each case 3 to 5 carbon atoms and in each case optionally monosubstituted or disubstituted by identical or different substituents from the group comprising chlorine, methoxy, ethoxy, acetyl, methoxycarbonyl, ethoxycarbonyl or cyano; or furthermore R^1 and R^2 represent cyclopropyl, cyclopentyl, cyclohexyl, cyclohexenyl or cyclooctyl, in each case optionally mono-, di-, tri-, tetra- or pentasubstituted by identical or different substituents from the group comprising chlorine and methyl; or furthermore R^1 and R^2 represent piperidyl, pyridyl, thienyl, oxazolyl, isoxazolyl, thiadiazolyl, fluorenyl, phthalimidoyl or dioxanyl, in each case optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising fluorine, chlorine, bromine, cyano, methyl, ethyl, propyl, propanediyl and butanediyl and/or benzo-fused; or furthermore R^1 and R^2 represent methoxy, ethoxy, propoxy, butoxy, methylthio, ethylthio, propylthio, butylthio, acetyl, chloroacetyl, dichloroacetyl, methoxycarbonyl, ethoxycarbonyl, chloroethoxycarbonyl or bromoethoxycarbonyl, and furthermore R^1 and R^2 represent amino or propylideneimino, optionally monosubstituted or disubstituted by identical or different substituents from the group comprising methyl, ethyl, allyl, propargyl, acetyl, chloroacetyl and dichloroacetyl, or R^1 and R^2, together with the nitrogen atom to which they are bonded, represent methylideneimino, ethylideneimino, propylideneimino, pyrrolidinyl,

piperidinyl, piperidonyl, perhydroazepinyl, perhydroazocinyl, dihydropyrazolyl, dihydro- or tetrahydropyridyl, azabicyclononyl, morpholinyl, perhydro-1,3-oxazinyl, 1,3-oxazolidinyl, 1,4-piperazinyl, perhydro-1,4-diazepinyl, dihydro-, tetrahydro- or perhydroquinolyl or -isoquinolyl, indolyl or dihydro- or perhydroindolyl, in each case optionally mono-, di-, tri-, tetra- or penta-substituted by identical or different substituents, possible substituents being: hydroxyl, fluorine, chlorine, bromine, cyano, formyl, methyl, ethyl, propyl, butyl, ethanediyl, propanediyl, methoxy, ethoxy, propoxy, butoxy, dioxyethylene, dioxypropylene, dioxybutylene, acetyl, propionyl, chloroacetyl, dichloroacetyl, α-chloropropionyl, methoxycarbonyl, ethoxycarbonyl, methylamino, ethylamino, dimethylamino, diethylamino and phenyl, naphthyl or piperidinyl, in each case optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising fluorine, chlorine, bromine, nitro, methyl, ethyl, methoxy, ethoxy, trifluoromethyl, acetyl, propionyl, methoxycarbonyl and ethoxycarbonyl, and cyclopropylmethyl, cyclohexylmethyl, piperidinylethyl, piperidinylpropyl, benzyl, phenylethyl and phenylpropenyl, in each case optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising chlorine, methyl, chloroacetyl and dichloroacetyl.

The terms "lower alkyl", "lower alkoxy" and the like in the context of this invention designate corresponding radicals with 1-4 C atoms. The following compounds of the general formula (I) may be mentioned specifically:

Table 1



(I)

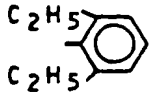
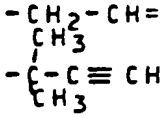
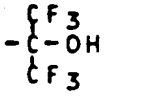
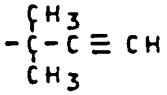
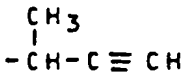
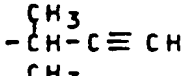
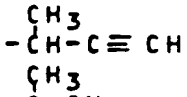
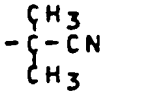
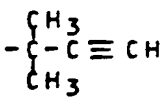
Example No.	R	R^1	R^2
I-1	H	H	
I-2	Cl	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-3	CH_3	H	
I-4	CH_3	H	
I-5	CH_3	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-6	CH_3		$-SO_2$ 
I-7	$n-C_3H_7$	H	
I-8	$n-C_3H_7$	CH_3	
I-9	$n-C_3H_7$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-10	$i-C_3H_7$	CH_3	
I-11	$n-C_4H_9$	H	
I-12	$(CH_3)_3C-CH_2-$	H	
I-13	$(CH_3)_3C-CH_2-$	CH_3	

Table 1 (Continuation)

Example No.	R	R^1	R^2
I-14	$CH_3-(CH_2)_2-\overset{CH_3}{\underset{}{C}}H-$	H	$-\overset{CH_3}{\underset{CH_3}{C}}-C\equiv CH$
I-15	$CH_3-(CH_2)_2-\overset{CH_3}{\underset{}{C}}H-$	CH_3	$-\overset{CH_3}{\underset{}{C}}H-C\equiv CH$
I-16	$CH_3-(CH_2)_2-\overset{CH_3}{\underset{}{C}}H-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-17	$n-C_6H_{13}$	H	$-\overset{CH_3}{\underset{CH_3}{C}}-C\equiv CH$
I-18	$n-C_6H_{13}$	CH_3	$-\overset{CH_3}{\underset{}{C}}H-C\equiv CH$
I-19	$n-C_6H_{13}$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-20	$CH_3-(CH_2)_2-\overset{CH_3}{\underset{CH_3}{C}}-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-21	$(CH_3)_3C-CH_2-\overset{CH_3}{\underset{}{C}}H-CH_2-$	H	$-\overset{CH_3}{\underset{CH_3}{C}}-C\equiv CH$
I-22	$n-C_9H_{19}$	H	$-\overset{CH_3}{\underset{CH_3}{C}}-C\equiv CH$
I-23	$n-C_9H_{19}$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-24	$n-C_{11}H_{23}$	H	$-\overset{CH_3}{\underset{CH_3}{C}}-C\equiv CH$
I-25	$n-C_{11}H_{23}$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-26	$n-C_{13}H_{27}$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-27	$Cl-CH_2-$	H	$-CH_2-CH(CH_3)_2$
I-28	$Cl-CH_2-$	H	$-C(CH_3)_3$

Table 1 (Continuation)

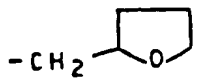
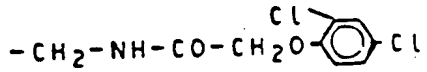
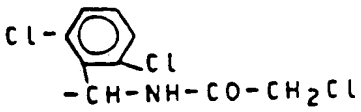
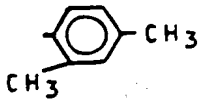
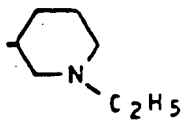
Example No.	R	R^1	R^2
I-29	$Cl-CH_2-$	H	$-\overset{CH_3}{\underset{CH_3}{C}}-C_2H_5$
I-30	$Cl-CH_2-$	H	$-\overset{CH_3}{CH}-CH_2-CH(CH_3)_2$
I-31	$Cl-CH_2-$	H	$-CH_2-\overset{CH_3}{C}=CH_2$
I-32	$Cl-CH_2-$	H	$-\overset{CH_3}{\underset{CH_3}{C}}-C\equiv CH$
I-33	$Cl-CH_2-$	H	$-\overset{CH_3}{\underset{CN}{C}}-C_2H_5$
I-34	$Cl-CH_2-$	H	$-\overset{C_2H_5}{\underset{CN}{C}}-C_2H_5$
I-35	$Cl-CH_2-$	H	$-CH_2CH_2-Br$
I-36	$Cl-CH_2-$	H	$-CH_2CH_2-OCH_3$
I-37	$Cl-CH_2-$	H	$-CH_2-CH(OCH_3)_2$
I-38	$Cl-CH_2-$	H	
I-39	$Cl-CH_2-$	H	
I-40	$Cl-CH_2-$	H	
I-41	$Cl-CH_2-$	H	
I-42	$Cl-CH_2-$	H	

Table 1 (Continuation)

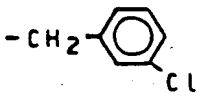
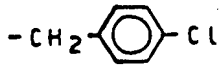
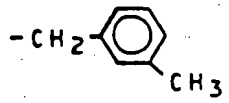
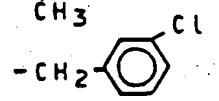
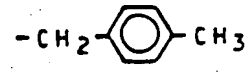
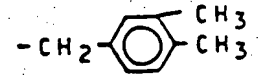
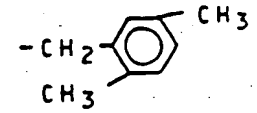
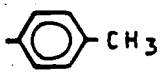
Example No.	R	R^1	R^2
I-43	$Cl-CH_2-$	CH_3	$-CH(CH_3)_2$
I-44	$Cl-CH_2-$	CH_3	$-(CH_2)_3-CH_3$
I-45	$Cl-CH_2-$	CH_3	$-\underset{CH_3}{CH}-C_2H_5$
I-46	$Cl-CH_2-$	CH_3	$-\underset{CH_3}{CH}-CH(CH_3)_2$
I-47	$Cl-CH_2-$	CH_3	$-CH_2-C\equiv CH$
I-48	$Cl-CH_2-$	CH_3	$-\overset{CH_3}{\underset{}{CH}}-C\equiv CH$
I-49	$Cl-CH_2-$	CH_3	$-CH_2CH_2-CN$
I-50	$Cl-CH_2-$	CH_3	
I-51	$Cl-CH_2-$	CH_3	
I-52	$Cl-CH_2-$	CH_3	
I-53	$Cl-CH_2$	C_2H_5	$-\underset{CH_3}{CH}-C_2H_5$
I-54	$Cl-CH_2-$	C_2H_5	
I-55	$Cl-CH_2-$	C_2H_5	
I-56	$Cl-CH_2-$	C_2H_5	
I-57	$Cl-CH_2-$	C_2H_5	
I-58	$Cl-CH_2-$	C_2H_5	
I-59	$Cl-CH_2-$	C_2H_5	

Table 1 (Continuation)

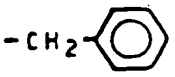
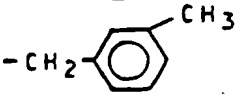
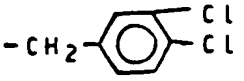
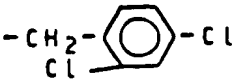
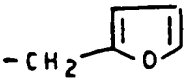
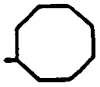
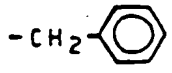
Example No.	R	R^1	R^2
I-60	$Cl-CH_2-$	$-CH_2CH_2CH_3$	$-CH_2-CH(CH_3)_2$
I-61	$Cl-CH_2-$	$-CH_2CH_2CH_3$	$-C(CH_3)_3$
I-62	$Cl-CH_2-$	$-CH_2CH_2CH_3$	$-\underset{CH_3}{CH}-(CH_2)_2-CH_3$
I-63	$Cl-CH_2-$	$-CH_2CH_2CH_3$	
I-64	$Cl-CH_2-$	$-CH_2CH_2CH_3$	
I-65	$Cl-CH_2-$	$-CH_2CH_2CH_3$	
I-66	$Cl-CH_2-$	$-CH_2CH_2CH_3$	
I-67	$Cl-CH_2-$	$-CH_2CH_2CH_3$	
I-68	$Cl-CH_2-$	$-CH_2CH_2CH_3$	
I-69	$Cl-CH_2-$	$-CH_2CH_2CH_3$	
I-70	$Cl-CH_2-$	$-CH(CH_3)_2$	$-CH_2CH_2CH_2CH_3$
I-71	$Cl-CH_2-$	$-CH(CH_3)_2$	$-\underset{CH_3}{CH}-C_2H_5$
I-72	$Cl-CH_2-$	$-CH(CH_3)_2$	$-CH_2-CH(CH_3)_2$
I-73	$Cl-CH_2-$	$-CH(CH_3)_2$	$-(CH_2)_4-CH_3$
I-74	$Cl-CH_2-$	$-CH(CH_3)_2$	
I-75	$Cl-CH_2-$	$-CH_2CH_2CH_2CH_3$	$-CH_2CH_2CH_2CH_3$
I-76	$Cl-CH_2-$	$-CH_2CH_2CH_2CH_3$	$-CH_2-CH(CH_3)_2$
I-77	$Cl-CH_2-$	$-CH_2CH_2CH_2CH_3$	$-CH=CH_2$
I-78	$Cl-CH_2-$	$-\underset{CH_3}{CH}-C_2H_5$	$-CH_2-CH(CH_3)_2$
I-79	$Cl-CH_2-$	$-(CH_2)_5-CH_3$	$-(CH_2)_5-CH_3$
I-80	$Cl-CH_2-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$

Table 1 (Continuation)

Example No.	R	R^1	R^2 or $-N(R^1)(R^2)$
I-81	$Cl-CH_2-$	$-CH_2CH_2-OH$	$-CH_2CH_2-OH$
I-82	$Cl-CH_2-$	$-CH_2CH_2OCH_3$	$-CH_2CH_2OCH_3$
I-83	$Cl-CH_2-$	$-CH_2CH_2OC_2H_5$	$-CH_2CH_2OC_2H_5$
I-84	$Cl-CH_2-$	$-CH_2CH_2O-CO-NH-CH_3$	$-CH_2CH_2O-CO-NH-CH_3$
I-85	$Cl-CH_2$	$-CH_2CH_2O-CO-NH-CH_2-CH=CH_2$	$-CH_2CH_2O-CO-NH-CH_2-CH=CH_2$
I-86	$Cl-CH_2-$	$-CH_2CH_2O-CO-NH-$(cyclohexyl)	$-CH_2CH_2O-CO-NH-$(cyclohexyl)
I-87	$Cl-CH_2-$	$-CH_2CH_2O-CO-NH-$(2,4-dichlorophenyl)	$-CH_2CH_2O-CO-NH-$(2,4-dichlorophenyl)
I-88	$Cl-CH_2-$		$-N$(2-methylpiperidyl)
I-89	$Cl-CH_2-$		$-N$(2,6-dimethylpiperidyl)
I-90	$Cl-CH_2$		$-N$(2,6-diethylpiperidyl)
I-91	$Cl-CH_2-$		$-N$(decahydroquinolyl)
I-92	$Cl-CH_2-$		$-N=C(N(CH_3)_2)_2$
I-93	$I-CH_2-$	H	$-C(CH_3)_2-C\equiv CH$
I-94	$I-CH_2-$	CH_3	$-CH(CH_3)-C\equiv CH$
I-95	$I-CH_2-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$

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Table 1 (Continuation)

Example No.	R	R^1	R^2
I-96	Cl_2CH-	H	$-CH_2-CH(CH_3)_2$
I-97	Cl_2CH-	H	$-C(CH_3)_3$
I-98	Cl_2CH-	H	$-\overset{CH_3}{\underset{CH_3}{\overset{\vert}{\underset{\vert}{C}}}}-C_2H_5$
I-99	Cl_2CH-	H	$-CH_2-CH=CH_2$
I-100	Cl_2CH-	H	$-CH_2-\overset{CH_3}{\overset{\vert}{C}}=CH_2$
I-101	Cl_2CH-	H	$-C-\overset{CH_3}{\underset{CH_3}{\overset{\vert}{\underset{\vert}{C}}}}\equiv CH$
I-102	Cl_2CH-	H	$-CH_2CH_2Br$
I-103	Cl_2CH-	H	$-CH_2CH_2OH$
I-104	Cl_2CH-	H	$-CH_2-\overset{CH_3}{\overset{\vert}{C}}H-OH$
I-105	Cl_2CH-	H	$-CH_2CH_2CH_2-OH$
I-106	Cl_2CH-	H	$-CH_2CH_2-OC_2H_5$
I-107	Cl_2CH-	H	$-CH_2CH_2CH_2-OCH(CH_3)_2$
I-108	Cl_2CH-	H	$-CH_2-CH\begin{matrix}\diagup OC_2H_5\\ \diagdown OC_2H_5\end{matrix}$
I-109	Cl_2CH-	H	$-\overset{CH_3}{\underset{C_2H_5}{\overset{\vert}{\underset{\vert}{C}}}}-CN$
I-110	Cl_2CH-	H	$-\overset{C_2H_5}{\underset{C_2H_5}{\overset{\vert}{\underset{\vert}{C}}}}-CN$
I-111	Cl_2CH-	H	$-CH_2CH_2-N(CH_3)_2$
I-112	Cl_2CH-	H	$-CH_2CH_2-N(C_2H_5)_2$
I-113	Cl_2CH-	H	$-CH_2CH_2-NH-CO-CHCl_2$
I-114	Cl_2CH-	H	$-CH_2CH_2CH_2-NH-CO-CHCl_2$

Table 1 (Continuation)

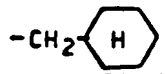
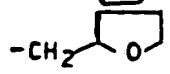
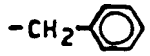
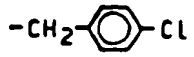
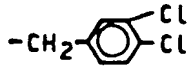
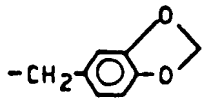
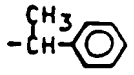
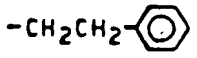
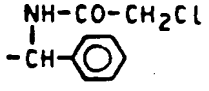
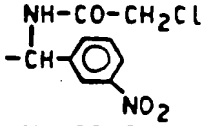
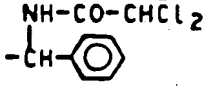
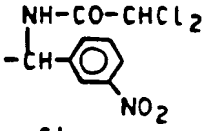
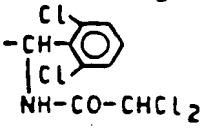
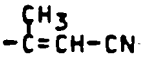
Example No.	R	R^1	R^2
I-115	Cl_2CH-	H	$-CH_2CH_2-N(C_2H_5)-CO-CHCl_2$
I-116	Cl_2CH-	H	$-(CH_2)_3-N(-(CH_2)_3-NH-CO-CHCl_2)-CO-CHCl_2$
I-117	Cl_2CH-	H	
I-118	Cl_2CH-	H	
I-119	Cl_2CH-	H	
I-120	Cl_2CH-	H	
I-121	Cl_2CH-	H	
I-122	Cl_2CH-	H	
I-123	Cl_2CH-	H	
I-124	Cl_2CH-	H	
I-125	Cl_2CH-	H	
I-126	Cl_2CH-	H	
I-127	Cl_2CH-	H	
I-128	Cl_2CH-	H	
I-129	Cl_2CH-	H	
I-130	Cl_2CH-	H	

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Table 1 (Continuation)

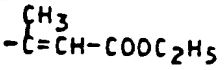
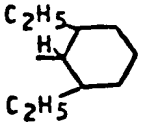
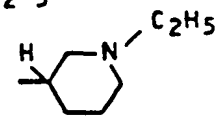
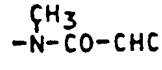
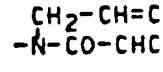
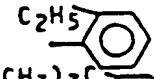
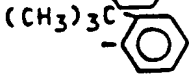
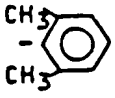
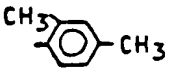
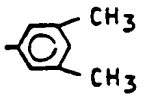
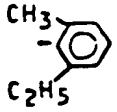
Example No.	R	R^1	R^2
I-131	Cl_2CH-	H	
I-132	Cl_2CH-	H	
I-133	Cl_2CH-	H	
I-134	Cl_2CH-	H	
I-135	Cl_2CH-	H	
I-136	Cl_2CH-	H	-CO-O-C_2H_5
I-137	Cl_2CH-	H	-CO-O-CH_2CH_2Cl
I-138	Cl_2CH-	H	-NH-CO-$CHCl_2$
I-139	Cl_2CH-	H	
I-140	Cl_2CH-	H	
I-141	Cl_2CH-	H	
I-142	Cl_2CH-	H	
I-143	Cl_2CH-	H	
I-144	Cl_2CH-	H	
I-145	Cl_2CH-	H	
I-146	Cl_2CH-	H	
I-147	Cl_2CH-	H	

Table 1 (Continuation)

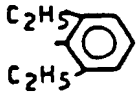
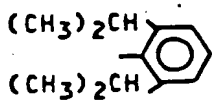
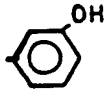
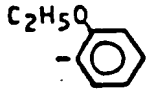
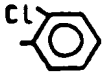
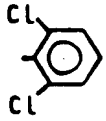
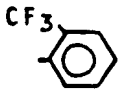
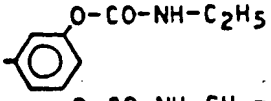
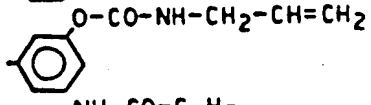
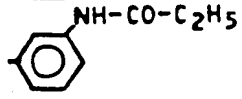
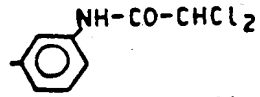
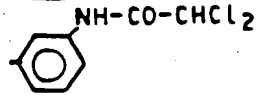
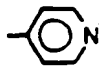
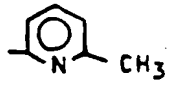
Example No.	R	R^1	R^2
I-148	Cl_2CH-	H	
I-149	Cl_2CH-	H	
I-150	Cl_2CH-	H	
I-151	Cl_2CH-	H	
I-152	Cl_2CH-	H	
I-153	Cl_2CH-	H	
I-154	Cl_2CH-	H	
I-155	Cl_2CH-	H	
I-156	Cl_2CH-	H	
I-157	Cl_2CH-	H	
I-158	Cl_2CH-	H	
I-159	Cl_2CH-	H	
I-160	Cl_2CH-	H	
I-161	Cl_2CH-	H	
I-162	Cl_2CH-	H	

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Table 1 (Continuation)

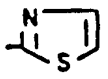
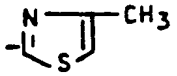
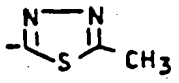
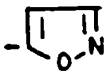
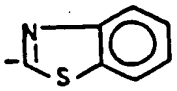
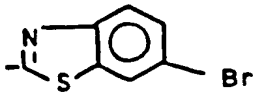
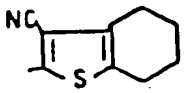
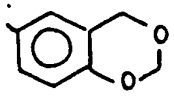
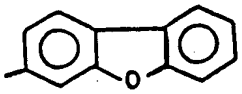
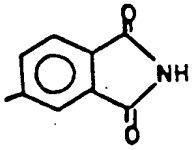
Example No.	R	R^1	R^2
I-163	Cl_2CH-	H	
I-164	Cl_2CH-	H	
I-165	Cl_2CH-	H	
I-166	Cl_2CH-	H	
I-167	Cl_2CH-	H	
I-168	Cl_2CH-	H	
I-169	Cl_2CH-	H	
I-170	Cl_2CH-	H	
I-171	Cl_2CH-	H	
I-172	Cl_2CH-	H	
I-173	Cl_2CH-	CH_3	$-CH_3$
I-174	Cl_2CH-	CH_3	$-CH_2CH_2CH_3$
I-175	Cl_2CH-	CH_3	$-CH(CH_3)_2$
I-176	Cl_2CH-	CH_3	$-CH_2CH_2CH_2CH_3$
I-177	Cl_2CH-	CH_3	$-\underset{\displaystyle CH_3}{\overset{\displaystyle |}{CH}}-CH_2CH_3$

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Table 1 (Continuation)

Example No.	R	R^1	R^2
I-178	Cl_2CH-	CH_3	$-CH(CH_3)-(CH_2)_2-CH_3$
I-179	Cl_2CH-	CH_3	$-CH(CH_3)-CH(CH_3)-CH_3$
I-180	Cl_2CH-	CH_3	$-CH=C=CH_2$
I-181	Cl_2CH-	CH_3	$-CH_2-C\equiv CH$
I-182	Cl_2CH-	CH_3	$-CH(CH_3)-C\equiv CH$
I-183	Cl_2CH-	CH_3	$-CH_2CH_2-OH$
I-184	Cl_2CH-	CH_3	$-CH_2CH_2-CN$
I-185	Cl_2CH-	CH_3	$-(CH_2)_2-N(CH_3)-(CH_2)_2-N(CH_3)-CO-CHCl_2$
I-186	Cl_2CH-	CH_3	$-CH_2-C_6H_5$
I-187	Cl_2CH-	CH_3	$-CH_2-C_6H_4-CH_3$
I-188	Cl_2CH-	CH_3	$-CH_2-C_6H_4-Cl$
I-189	Cl_2CH-	CH_3	$-CH_2-C_6H_4-Cl$
I-190	Cl_2CH-	CH_3	$-CH_2-C_6H_4-Cl$
I-191	Cl_2CH-	CH_3	$-NH_2$
I-192	Cl_2CH-	CH_3	$-N=C(CH_3)_2$
I-193	Cl_2CH-	CH_3	$-N(CO-CHCl_2)_2$

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Table 1 (Continuation)

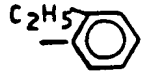
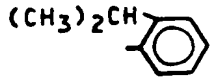
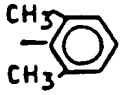
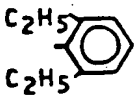
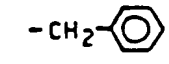
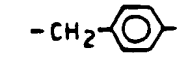
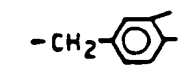
Example No.	R	R^1	R^2
I-194	Cl_2CH-	CH_3	
I-195	Cl_2CH-	CH_3	
I-196	Cl_2CH-	CH_3	
I-197	Cl_2CH-	CH_3	
I-198	Cl_2CH-	CH_3	
I-199	Cl_2CH-	CH_3	
I-200	Cl_2CH-	C_2H_5	C_2H_5
I-201	Cl_2CH-	C_2H_5	$-CH(CH_3)_2$
I-202	Cl_2CH-	C_2H_5	$-CH_2CH_2CH_2CH_3$
I-203	Cl_2CH-	C_2H_5	$-\underset{\displaystyle CH_3}{\overset{\displaystyle |}{CH}}-C_2H_5$
I-204	Cl_2CH-	C_2H_5	$-CH_2-CH(CH_3)_2$
I-205	Cl_2CH-	C_2H_5	$-C(CH_3)_3$
I-206	Cl_2CH-	C_2H_5	$-\underset{\displaystyle CH_3}{\overset{\displaystyle |}{CH}}-CH_2CH_2CH_3$
I-207	Cl_2CH-	C_2H_5	$-(CH_2)_5-CH_3$
I-208	Cl_2CH-	C_2H_5	$-\overset{\displaystyle C_2H_5}{\overset{\displaystyle |}{C}}=CH-CH_3$
I-209	Cl_2CH-	C_2H_5	$-CH_2CH_2-O-CO-CHCl_2$
I-210	Cl_2CH-	C_2H_5	$-CH_2CH_2-\underset{\displaystyle C_2H_5}{\overset{\displaystyle |}{N}}-CO-CHCl_2$
I-211	Cl_2CH-	C_2H_5	
I-212	Cl_2CH-	C_2H_5	
I-213	Cl_2CH-	C_2H_5	

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Table 1 (Continuation)

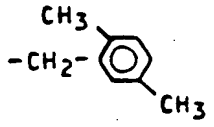
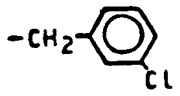
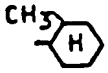
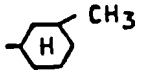
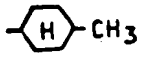
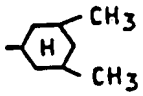
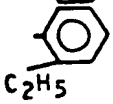
Example No.	R	R^1	R^2
I-214	Cl_2CH-	C_2H_5	
I-215	Cl_2CH-	C_2H_5	
I-216	Cl_2CH-	C_2H_5	
I-217	Cl_2CH-	C_2H_5	
I-218	Cl_2CH-	C_2H_5	
I-219	Cl_2CH-	C_2H_5	
I-220	Cl_2CH-	C_2H_5	
I-221	Cl_2CH-	C_2H_5	
I-222	Cl_2CH-	C_2H_5	
I-223	Cl_2CH-	$CH_3CH_2CH_2-$	$-CH_2CH_2CH_3$
I-224	Cl_2CH-	$CH_3CH_2CH_2-$	$-CH_2CH_2CH_2CH_3$
I-225	Cl_2CH-	$CH_3CH_2CH_2-$	$-CH(CH_3)-C_2H_5$
I-226	Cl_2CH-	$CH_3CH_2CH_2-$	$-CH_2-CH(CH_3)_2$
I-227	Cl_2CH-	$CH_3CH_2CH_2-$	$-C(CH_3)_3$
I-228	Cl_2CH-	$CH_3CH_2CH_2-$	$-(CH_2)_4-CH_3$
I-229	Cl_2CH-	$CH_3CH_2CH_2-$	$-CH(CH_3)-(CH_2)_2-CH_3$
I-230	Cl_2CH-	$CH_3CH_2CH_2-$	$-CH(CH_3)-CH(CH_3)_2$
I-231	Cl_2CH-	$CH_3CH_2CH_2-$	$-(CH_2)_5-CH_3$

Table 1 (Continuation)

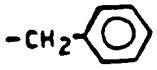
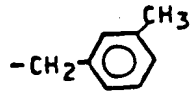
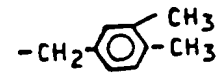
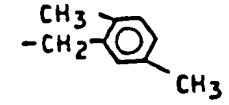
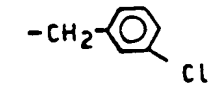
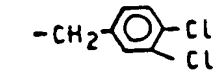
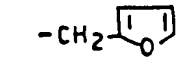
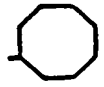
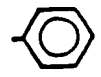
Example No.	R	R^1	R^2
I-232	Cl_2CH-	$CH_3CH_2CH_2-$	$-CH_2-CH=CH_2$
I-233	Cl_2CH-	$CH_3CH_2CH_2-$	$-\underset{\displaystyle CH_3}{\overset{\displaystyle |}{C}}=CH-C_2H_5$
I-234	Cl_2CH-	$CH_3CH_2CH_2-$	
I-235	Cl_2CH-	$CH_3CH_2CH_2-$	
I-236	Cl_2CH-	$CH_3CH_2CH_2-$	
I-237	Cl_2CH-	$CH_3CH_2CH_2-$	
I-238	Cl_2CH-	$CH_3CH_2CH_2-$	
I-239	Cl_2CH-	$CH_3CH_2CH_2-$	
I-240	Cl_2CH-	$CH_3CH_2CH_2-$	
I-241	Cl_2CH-	$CH_3CH_2CH_2-$	
I-242	Cl_2CH-	$CH_3CH_2CH_2-$	$-CH_2-\overset{\displaystyle Cl}{\overset{\displaystyle |}{C}}=CH_2$
I-243	Cl_2CH-	$CH_3CH_2CH_2-$	
I-244	Cl_2CH-	$CH_3CH_2CH_2-$	
I-245	Cl_2CH-	$CH_3CH_2CH_2-$	
I-246	Cl_2CH-	$(CH_3)_2CH-$	$-CH(CH_3)_2$
I-247	Cl_2CH-	$(CH_3)_2CH-$	$-CH_2CH_2CH_2CH_3$
I-248	Cl_2CH-	$(CH_3)_2CH-$	$-\underset{\displaystyle CH_3}{\overset{\displaystyle |}{CH}}-C_2H_5$

Table 1 (Continuation)

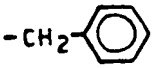
Example No.	R	R^1	R^2
I-249	Cl_2CH-	$(CH_3)_2CH-$	$-CH_2-CH(CH_3)_2$
I-250	Cl_2CH-	$(CH_3)_2CH-$	$-(CH_2)_4-CH_3$
I-251	Cl_2CH-	$(CH_3)_2CH-$	$-\underset{\displaystyle CH_3}{\overset{\displaystyle |}{CH}}-(CH_2)_2-CH_3$
I-252	Cl_2CH-	$(CH_3)_2CH-$	$-CH_2-CH=CH_2$
I-253	Cl_2CH-	$(CH_3)_2CH-$	
I-254	Cl_2CH-	$(CH_3)_2CH-$	
I-255	Cl_2CH-	$n-C_4H_9-$	$-\underset{\displaystyle CH_3}{\overset{\displaystyle |}{CH}}-C_2H_5$
I-256	Cl_2CH-	$n-C_4H_9-$	$-CH_2-CH(CH_3)_2$
I-257	Cl_2CH-	$n-C_4H_9$	$-C(CH_3)_3$
I-258	Cl_2CH-	$n-C_4H_9$	$-CH_2-CH=CH_2$
I-259	Cl_2CH-	$n-C_4H_9-$	$-CH=CH-C_2H_5$
I-260	Cl_2CH-	CH_3	
I-261	Cl_2CH-	$n-C_4H_9-$	
I-262	Cl_2CH-	$C_2H_5-\underset{\displaystyle CH_3}{\overset{\displaystyle |}{CH}}-$	$-CH_2-CH(CH_3)_2$
I-263	Cl_2CH-	$C_2H_5-\underset{\displaystyle CH_3}{\overset{\displaystyle |}{CH}}-$	
I-264	Cl_2CH-	$(CH_3)_2CH-CH_2-$	$-CH_2-CH=CH_2$
I-265	Cl_2CH-	$(CH_3)_2CH-CH_2-$	$-CO-H$
I-266	Cl_2CH-	$(CH_3)_2CH-CH_2-$	$-CO-CH_3$
I-267	Cl_2CH-	$(CH_3)_2CH-CH_2-$	$-CO-CHCl_2$
I-268	Cl_2CH-	$(CH_3)_3C-$	$-CH=CH-C_2H_5$
I-269	Cl_2CH-	$(CH_3)_3C-$	$-CH_2-CH_2-OH$

Table 1 (Continuation)

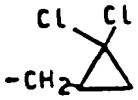
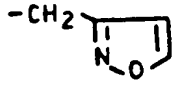
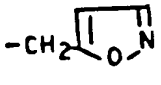
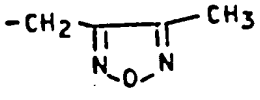
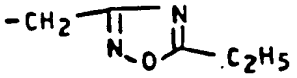
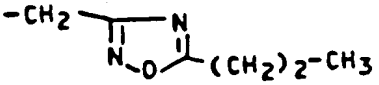
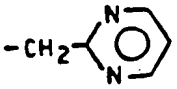
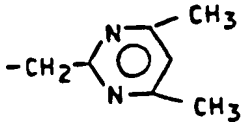
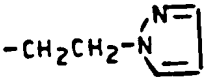
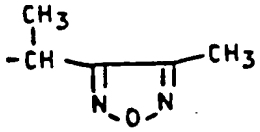
Example No.	R	R^1	R^2
I-270	Cl_2CH-	$CH_3-(CH_2)_5-$	$-(CH_2)_5-CH_3$
I-271	Cl_2CH-	$CH_2=CH-CH_2-$	$-CH_2-CH=CH_2$
I-272	Cl_2CH-	$CH_2=CH-CH_2-$	$-CH_2-C(CH_3)=CH_2$
I-273	Cl_2CH-	$CH_2=CH-CH_2-$	$-CH_2-CH=N-OCH_3$
I-274	Cl_2CH-	$CH_2=CH-CH_2-$	
I-275	Cl_2CH-	$CH_2=CH-CH_2-$	
I-276	Cl_2CH-	$CH_2=CH-CH_2-$	
I-277	Cl_2CH-	$CH_2=CH-CH_2-$	
I-278	Cl_2CH-	$CH_2=CH-CH_2-$	
I-279	Cl_2CH-	$CH_2=CH-CH_2-$	
I-280	Cl_2CH-	$CH_2=CH-CH_2-$	
I-281	Cl_2CH-	$CH_2=CH-CH_2-$	
I-282	Cl_2CH-	$CH_2=CH-CH_2-$	
I-283	Cl_2CH-	$CH_2=CH-CH_2-$	
I-284	Cl_2CH-	$CH_2=CH-CH_2-$	

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Table 1 (Continuation)

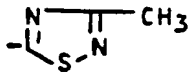
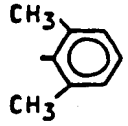
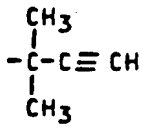
Example No.	R	R^1	R^2
I-285	Cl_2CH-	$CH_2=CH-CH_2-$	$-CH_2-\underset{\displaystyle Cl}{\overset{\displaystyle |}{C}}=CH_2$
I-286	Cl_2CH-	$CH_2=CH-CH_2-$	
I-287	Cl_2CH-	$CH_2=CH-CH_2-$	
I-288	Cl_2CH-	$CH_2=CH-CH_2-$	
I-289	Cl_2CH-	$CH_2=\underset{\displaystyle CH_3}{\overset{\displaystyle |}{C}}-$	
I-290	Cl_2CH-	$C_2H_5-CH=CH-$	
I-291	Cl_2CH-	$H_2C=CH-CH_2-$	$-CH_2-CH(OCH_3)_2$
I-292	Cl_2CH-	$-CH_2-CN$	$-CH_2-CN$
I-293	Cl_2CH-	$-CH_2CH_2-CN$	$-CH_2CH_2-CN$
I-294	Cl_2CH-	$-CH_2CH_2-OH$	$-CH_2CH_2-OH$
I-295	Cl_2CH-	$-CH_2CH_2-Cl$	$-CH_2CH_2-Cl$
I-296	Cl_2CH-	$-CH_2CH_2OCH_3$	$-CH_2CH_2OCH_3$
I-297	Cl_2CH-	$-CH_2CH_2OC_2H_5$	$-CH_2CH_2OC_2H_5$
I-298	Cl_2CH-	$-CH_2-\underset{\displaystyle OH}{\overset{\displaystyle |}{C}}H-CH_3$	$-CH_2-\underset{\displaystyle OH}{\overset{\displaystyle |}{C}}H-CH_3$
I-299	Cl_2CH-	$-(CH_2)_2OCOC_2H_5$	$-(CH_2)_2OCOC_2H_5$
I-300	Cl_2CH-	$-(CH_2)_2OCOCHCl_2$	$-(CH_2)_2OCOCHCl_2$
I-301	Cl_2CH-	$-(CH_2)_2OCOOCH_3$	$-(CH_2)_2OCOOCH_3$
I-302	Cl_2CH-	$-(CH_2)_2OCOSC_2H_5$	$-(CH_2)_2OCOSC_2H_5$
I-303	Cl_2CH-	$-(CH_2)_2OCONHCH_3$	$-(CH_2)_2OCONHCH_3$

Table 1 (Continuation)

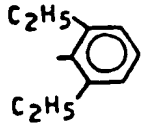
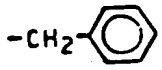
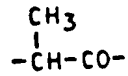
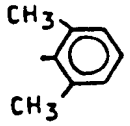
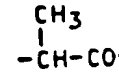
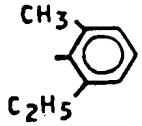
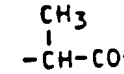
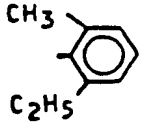
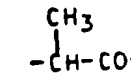
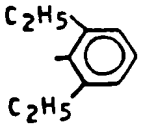
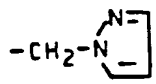
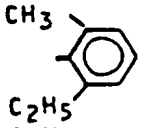
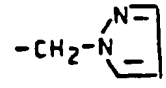
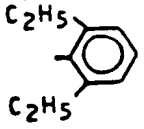
Example No.	R	R^1	R^2
I-304	Cl_2CH-	$-(CH_2)_2OCON(CH_3)_2$	$-(CH_2)_2OCON(CH_3)_2$
I-305	Cl_2CH-	$-(CH_2)_2OCONHC_2H_5$	$-(CH_2)_2OCONHC_2H_5$
I-306	Cl_2CH-	$-(CH_2)_2OCONHCH(CH_3)_2$	$-(CH_2)_2OCONHCH(CH_3)_2$
I-307	Cl_2CH-	$-(CH_2)_2OCONH(CH_2)_3CH_3$	$-(CH_2)_2OCONH(CH_2)_3CH_3$
I-308	Cl_2CH-	$-(CH_2)_2OCONHCH_2CH=CH_2$	$-(CH_2)_2OCONHCH_2CH=CH_2$
I-309	Cl_2CH-	$-(CH_2)_3OSO_2CH_3$	$-(CH_2)_2OSO_2CH_3$
I-310	Cl_2CH-	$-(CH_2)_3NHCOCHCl_2$	$-(CH_2)_3NHCOCHCl_2$
I-311	Cl_2CH-	$-CH_2OCH_3$	
I-312	Cl_2CH-	$-CH_2CH_2-SH$	
I-313	Cl_2CH-	$-CH_2CO-OC_2H_5$	
I-314	Cl_2CH-		
I-315	Cl_2CH-		
I-316	Cl_2CH-		
I-317	Cl_2CH-		
I-318	Cl_2CH-		
I-319	Cl_2CH-		

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Table 1 (Continuation)

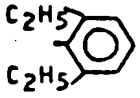
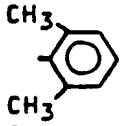
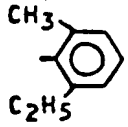
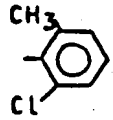
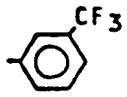
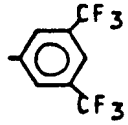
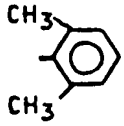
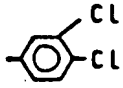
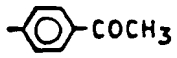
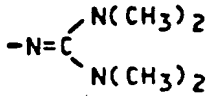
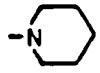
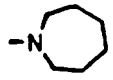
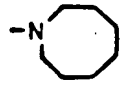
Example No.	R	R^1	R^2 or $-N(R^1)(R^2)$
I-320	Cl_2CH-	$-CH(-C(Cl)=CH_2)-CH_2-OCH_3$	
I-321	Cl_2CH-	$-C(CH_3)=CH-COCH_3$	
I-322	Cl_2CH-	$-C(CH_3)=CH-COCH_3$	
I-323	Cl_2CH-	$-C(CH_3)=CH-COCH_3$	
I-324	Cl_2CH-	$-C(CH_3)=CH-COCH_3$	
I-325	Cl_2CH-	$-C(CH_3)=CH-COCH_3$	
I-326	Cl_2CH-	$-C(CH_3)=CHCOOC_2H_5$	
I-327	Cl_2CH-	$-C(=O)-H$	
I-328	Cl_2CH-	$-CO-CHCl_2$	
I-329	Cl_2CH-		
I-330	Cl_2CH-		
I-331	Cl_2CH-		
I-332	Cl_2CH-		

Table 1 (Continuation)

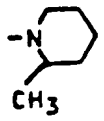
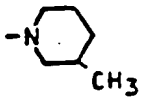
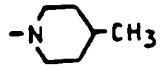
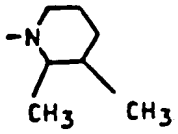
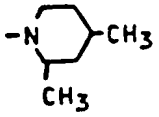
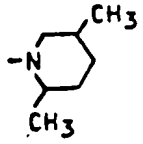
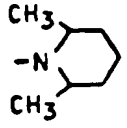
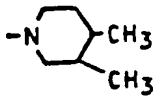
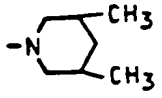
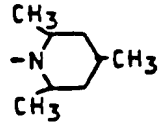
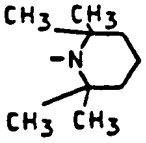
Example No.	R	R^1	R^2	or $-N\begin{matrix}R^1\\R^2\end{matrix}$
I-333	Cl_2CH-			
I-334	Cl_2CH-			
I-335	Cl_2CH-			
I-336	Cl_2CH-			
I-337	Cl_2CH-			
I-338	Cl_2CH-			
I-339	Cl_2CH-			
I-340	Cl_2CH-			
I-341	Cl_2CH-			
I-342	Cl_2CH-			
I-343	Cl_2CH-			

Table 1 (Continuation)

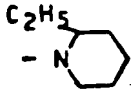
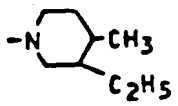
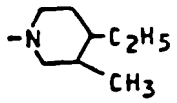
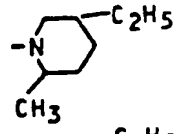
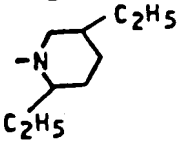
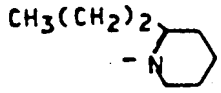
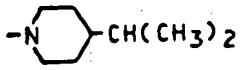
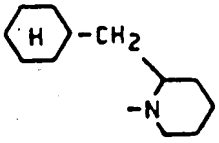
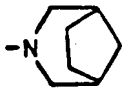
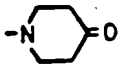
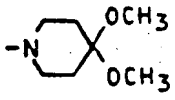
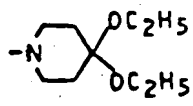
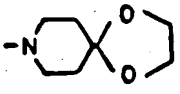
Example No.	R	R^1	R^2	or	$-N\begin{smallmatrix}R^1\\R^2\end{smallmatrix}$
I-344	Cl_2CH-				
I-345	Cl_2CH-				
I-346	Cl_2CH-				
I-347	Cl_2CH-				
I-348	Cl_2CH-				
I-349	Cl_2CH-				
I-350	Cl_2CH-				
I-351	Cl_2CH-				
I-352	Cl_2CH-				
I-353	Cl_2CH-				
I-354	Cl_2CH-				
I-355	Cl_2CH-				
I-356	Cl_2CH-				

Table 1 (Continuation)

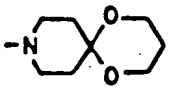
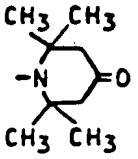
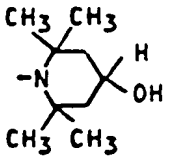
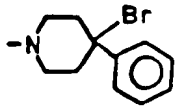
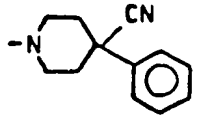
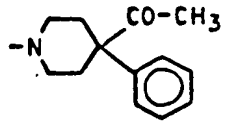
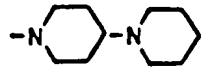
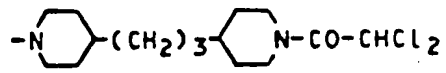
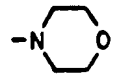
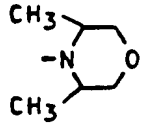
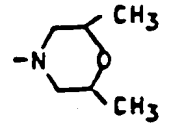
Example No.	R	R^1	R^2	or	$-N\begin{matrix}R^1\\R^2\end{matrix}$
I-357	Cl_2CH-				
I-358	Cl_2CH-				
I-359	Cl_2CH-				
I-360	Cl_2CH-				
I-361	Cl_2CH-				
I-362	Cl_2CH-				
I-363	Cl_2CH-				
I-364	Cl_2CH-				
I-365	Cl_2CH-				
I-366	Cl_2CH-				
I-367	Cl_2CH-				

Table 1 (Continuation)

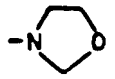
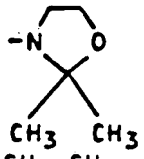
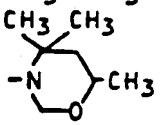
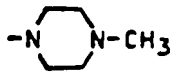
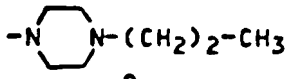
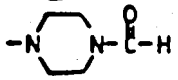
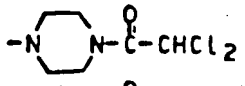
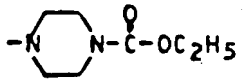
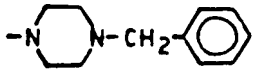
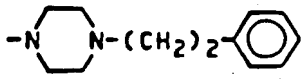
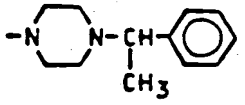
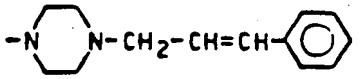
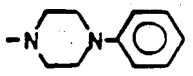
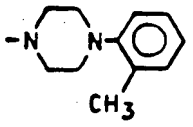
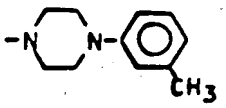
Example No.	R	R^1	R^2	or	$-N\begin{smallmatrix}R^1\\R^2\end{smallmatrix}$
I-368	Cl_2CH-				
I-369	Cl_2CH-				
I-370	Cl_2CH-				
I-371	Cl_2CH-				
I-372	Cl_2CH-				
I-373	Cl_2CH-				
I-374	Cl_2CH-				
I-375	Cl_2CH-				
I-376	Cl_2CH-				
I-377	Cl_2CH-				
I-378	Cl_2CH-				
I-379	Cl_2CH-				
I-380	Cl_2CH-				
I-381	Cl_2CH-				
I-382	Cl_2CH-				

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Table 1 (Continuation)

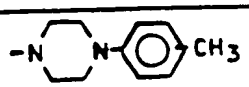
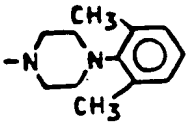
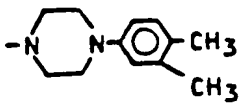
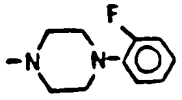
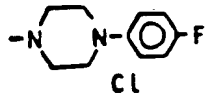
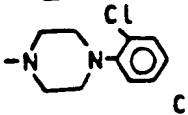
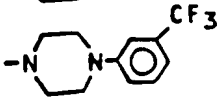
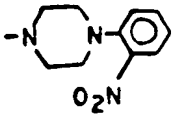
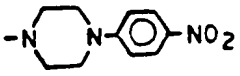
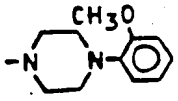
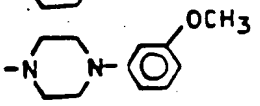
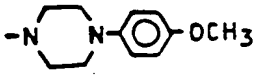
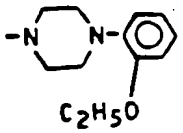
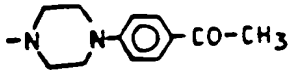
Example No.	R	R^1	R^2	or	$-N\begin{smallmatrix}R^1\\R^2\end{smallmatrix}$
I-383	Cl_2CH-				
I-384	Cl_2CH-				
I-385	Cl_2CH-				
I-386	Cl_2CH-				
I-387	Cl_2CH-				
I-388	Cl_2CH-				
I-389	Cl_2CH-				
I-390	Cl_2CH-				
I-391	Cl_2CH-				
I-392	Cl_2CH-				
I-393	Cl_2CH-				
I-394	Cl_2CH-				
I-395	Cl_2CH-				
I-396	Cl_2CH-				

Table 1 (Continuation)

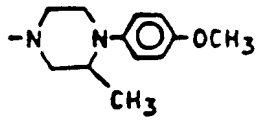
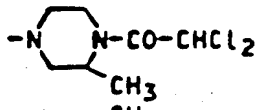
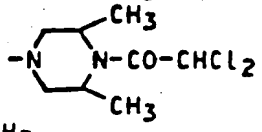
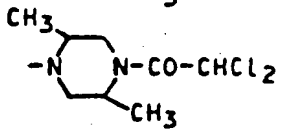
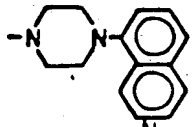
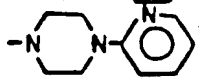
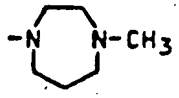
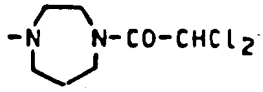
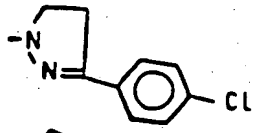
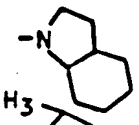
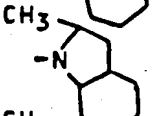
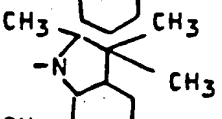
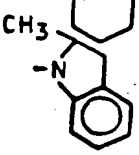
Example No.	R	R^1	R^2	or	$-N\begin{matrix}R^1\\R^2\end{matrix}$
I-397	Cl_2CH-				
I-398	Cl_2CH-				
I-399	Cl_2CH-				
I-400	Cl_2CH-				
I-401	Cl_2CH-				
I-402	Cl_2CH-				
I-403	Cl_2CH-				
I-404	Cl_2CH-				
I-405	Cl_2CH-				
I-406	Cl_2CH-				
I-407	Cl_2CH-				
I-408	Cl_2CH-				
I-409	Cl_2CH-				

Table 1 (Continuation)

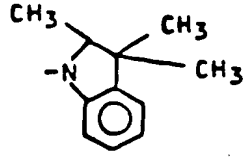
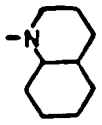
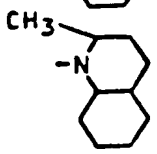
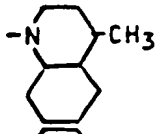
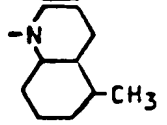
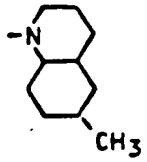
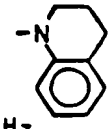
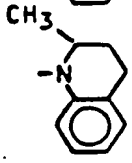
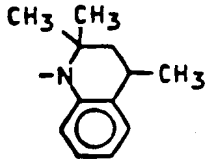
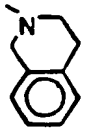
Example No.	R	R^1	R^2	or	$-N\begin{matrix}R^1\\R^2\end{matrix}$
I-410	Cl_2CH-				
I-411	Cl_2CH-				
I-412	Cl_2CH-				
I-413	Cl_2CH-				
I-414	Cl_2CH-				
I-415	Cl_2CH-				
I-416	Cl_2CH-				
I-417	Cl_2CH-				
I-418	Cl_2CH-				
I-419	Cl_2CH-				

Table 1 (Continuation)

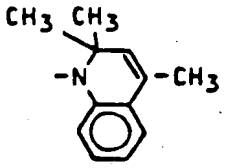
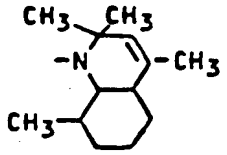
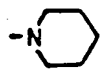
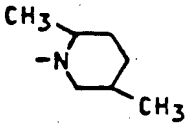
Example No.	R	R^1	R^2	or $-N\begin{matrix}R^1\\R^2\end{matrix}$
I-420	Cl_2CH-			
I-421	Cl_2CH-			
I-422	Cl_3C-	H	$-CH_2-CH=CH_2$	
I-423	Cl_3C-	H	$-CH_2CH_2-Br$	
I-424	Cl_3C-	H	$-C(CH_3)(CN)-C_2H_5$	
I-425	Cl_3C-	H	$-CH_2-NHCOCH_2Cl$	
I-426	Cl_3C-	CH_3	CH_3	
I-427	Cl_3C-	CH_3	$-CH(CH_3)-C\equiv CH$	
I-428	Cl_3C-	C_2H_5	$-CH_2CH_2CH_2CH_3$	
I-429	Cl_3C-	$-CH_2CH_2CH_3$	$-CH_2CH_2CH_3$	
I-430	Cl_3C-	$-CH(CH_3)_2$	$-CH(CH_3)_2$	
I-431	Cl_3C-	$-CH_2CH(CH_3)_2$	$-CH_2CH(CH_3)_2$	
I-432	Cl_3C-	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$	
I-433	Cl_3C-			
I-434	Cl_3C-			
I-435	Br_3C-	H	$-C(CH_3)(CH_3)-C\equiv CH$	

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Table 1 (Continuation)

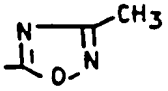
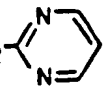
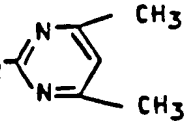
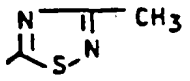
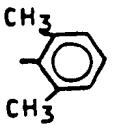
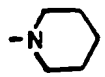
Example No.	R	R^1	R^2	or	$-N\begin{matrix}R^1\\R^2\end{matrix}$
I-436	Br_3C-	H	$-C(CH_3)_2-CN$		
I-437	Br_3C-	H	$-CH_2-CH=CH_2$		
I-438	Br_3C-	CH_3	$-CH(CH_3)-C\equiv CH$		
I-439	Br_3C-	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$		
I-440	$Cl-CH(CH_3)-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$		
I-441	$Cl-CH(CH_3)-$	$-CH_2-CH=CH_2$	$-CH_2-CO-CH_3$		
I-442	$Cl-CH(CH_3)-$	$-CH_2-CH=CH_2$	$-CH_2-CH=N-OCH_3$		
I-443	$Cl-CH(CH_3)-$	$-CH_2-CH=CH_2$	$-CH_2-C(CH_3)=N-OCH_3$		
I-444	$Cl-CH(CH_3)-$	$-CH_2-CH=CH_2$			
I-445	$Cl-CH(CH_3)-$	$-CH_2-CH=CH_2$			
I-446	$Cl-CH(CH_3)-$	$-CH_2-CH=CH_2$			
I-447	$Cl-CH(CH_3)-$	$-CH_2-CH=CH_2$			
I-448	$Cl-CH(CH_3)-$	$-CH(CH_3)-COOCH_3$			
I-449	$Cl-CH(CH_3)-$				

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Table 1 (Continuation)

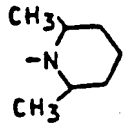
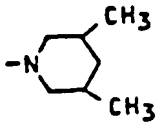
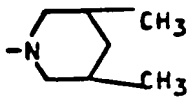
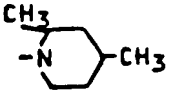
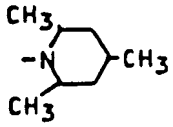
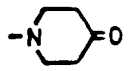
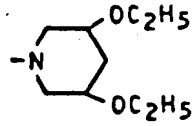
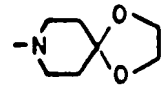
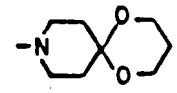
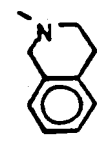
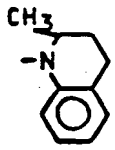
Example No.	R	R^1	R^2	or	$-N\begin{matrix}R^1\\R^2\end{matrix}$
I-450	$Cl-\underset{\displaystyle CH_3}{\overset{\displaystyle CH_3}{\underset{\displaystyle |}{\overset{\displaystyle |}{C}}}}-CH-$				
I-451	$Cl-\underset{\displaystyle CH_3}{\overset{\displaystyle CH_3}{\underset{\displaystyle |}{\overset{\displaystyle |}{C}}}}-CH-$				
I-452	$Cl-\underset{\displaystyle CH_3}{\overset{\displaystyle CH_3}{\underset{\displaystyle |}{\overset{\displaystyle |}{C}}}}-CH-$				
I-453	$Cl-\underset{\displaystyle CH_3}{\overset{\displaystyle CH_3}{\underset{\displaystyle |}{\overset{\displaystyle |}{C}}}}-CH-$				
I-454	$Cl-\underset{\displaystyle CH_3}{\overset{\displaystyle CH_3}{\underset{\displaystyle |}{\overset{\displaystyle |}{C}}}}-CH-$				
I-455	$Cl-\underset{\displaystyle CH_3}{\overset{\displaystyle CH_3}{\underset{\displaystyle |}{\overset{\displaystyle |}{C}}}}-CH-$				
I-456	$Cl-\underset{\displaystyle CH_3}{\overset{\displaystyle CH_3}{\underset{\displaystyle |}{\overset{\displaystyle |}{C}}}}-CH-$				
I-457	$Cl-\underset{\displaystyle CH_3}{\overset{\displaystyle CH_3}{\underset{\displaystyle |}{\overset{\displaystyle |}{C}}}}-CH-$				
I-458	$Cl-\underset{\displaystyle CH_3}{\overset{\displaystyle CH_3}{\underset{\displaystyle |}{\overset{\displaystyle |}{C}}}}-CH-$				
I-459	$Cl-\underset{\displaystyle CH_3}{\overset{\displaystyle CH_3}{\underset{\displaystyle |}{\overset{\displaystyle |}{C}}}}-CH-$				
I-460	$Cl-\underset{\displaystyle CH_3}{\overset{\displaystyle CH_3}{\underset{\displaystyle |}{\overset{\displaystyle |}{C}}}}-CH-$				

Table 1 (Continuation)

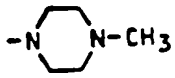
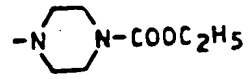
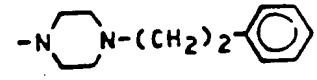
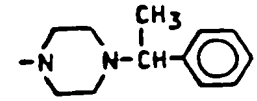
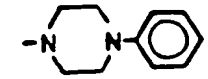
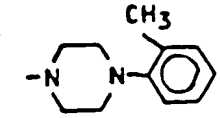
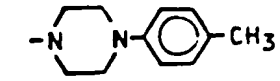
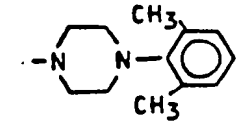
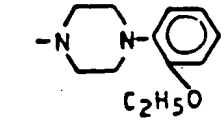
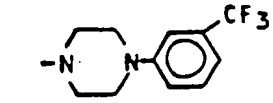
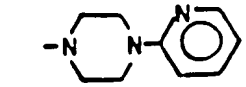
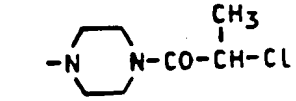
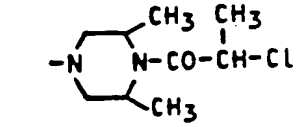
Example No.	R	R^1	R^2	or $-N\begin{smallmatrix}R^1\\R^2\end{smallmatrix}$
I-461	$Cl-\underset{CH_3}{\underset{\vert}{CH}}-$			
I-462	$Cl-\underset{CH_3}{\underset{\vert}{CH}}-$			
I-463	$Cl-\underset{CH_3}{\underset{\vert}{CH}}-$			
I-464	$Cl-\underset{CH_3}{\underset{\vert}{CH}}-$			
I-465	$Cl-\underset{CH_3}{\underset{\vert}{CH}}-$			
I-466	$Cl-\underset{CH_3}{\underset{\vert}{CH}}-$			
I-467	$Cl-\underset{CH_3}{\underset{\vert}{CH}}-CH_2-$			
I-468	$Cl-\underset{CH_3}{\underset{\vert}{CH}}-CH_2-$			
I-469	$Cl-\underset{CH_3}{\underset{\vert}{CH}}-$			
I-470	$Cl-\underset{CH_3}{\underset{\vert}{CH}}-$			
I-471	$Cl-\underset{CH_3}{\underset{\vert}{CH}}-$			
I-472	$Cl-\underset{CH_3}{\underset{\vert}{CH}}-$			
I-473	$Cl-\underset{CH_3}{\underset{\vert}{CH}}-$			

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Table 1 (Continuation)

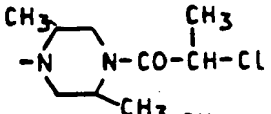
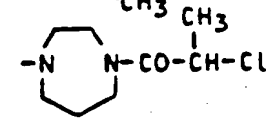
Example No.	R	R^1	R^2 or $-N\begin{smallmatrix}R^1\\R^2\end{smallmatrix}$
I-474	$Cl-CH(CH_3)-$		
I-475	$Cl-CH(CH_3)-$		
I-476	$Cl-CH_2CH_2-$	H	$-C(CH_3)_2-C\equiv CH$
I-477	$Cl-CH_2CH_2-$	CH_3	$-CH(CH_3)-C\equiv CH$
I-478	$Cl-CH_2CH_2-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-479	CH_3-CCl_2-	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-480	$CH_3-CH(Br)-$	H	$-C(CH_3)_2-C\equiv CH$
I-481	$CH_3-CH(Br)-$	CH_3	$-CH(CH_3)-C\equiv CH$
I-482	$CH_3-CH(Br)-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-483	$F_3C-CF_2-CF_2-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-484	$BrCH_2CH_2CH_2-$	H	$-SO_2Cl$
I-485	$Br-C(CH_3)_2-$	H	$-C(CH_3)_2-C\equiv CH$

Table 1 (Continuation)

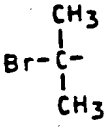
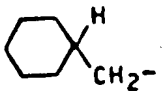
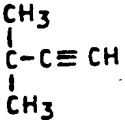
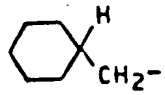
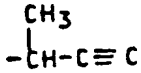
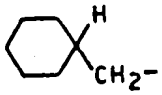
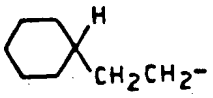
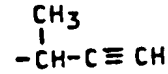
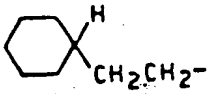
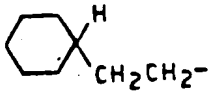
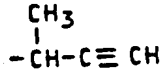
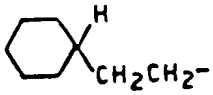
Example No.	R	R^1	R^2
I-486		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-487	$Br-(CH_2)_5-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-488	$HO-CH_2-$	C_2H_5	C_2H_5
I-489	$NC-CH_2-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-490	$NCO-CH_2-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-491		H	
I-492		CH_3	
I-493		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-494		CH_3	
I-495		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-496		CH_3	
I-497		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-498	$CH_3OCH_2CH_2-$	$-C_2H_5$	$-C_2H_5$

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Table 1 (Continuation)

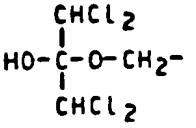
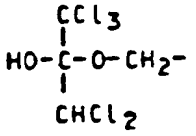
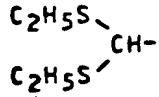
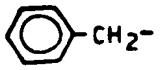
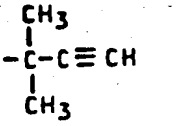
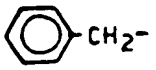
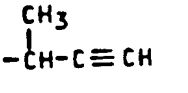
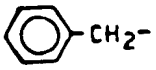
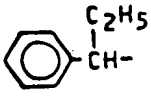
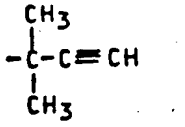
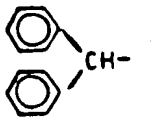
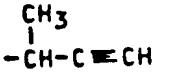
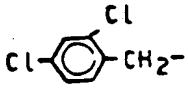
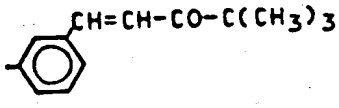
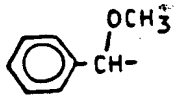
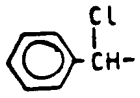
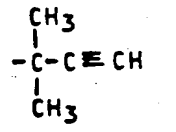
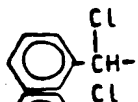
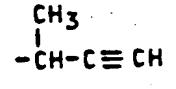
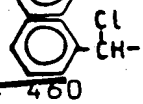
Example No.	R	R^1	R^2
I-499		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-500		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-501		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-502		H	
I-503		CH_3	
I-504		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-505		H	
I-506		CH_3	
I-507		H	
I-508		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-509		H	
I-510		CH_3	
I-511		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$

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Table 1 (Continuation)

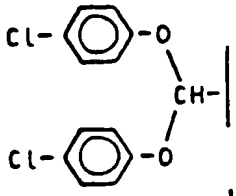
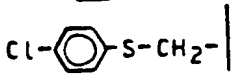
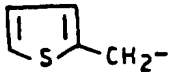
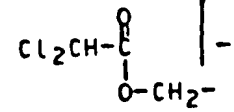
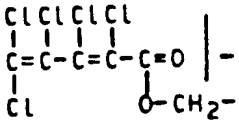
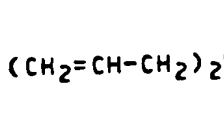
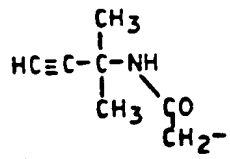
Example No.	R	R^1	R^2
I-512		$-CH_2CH=CH_2$	$-CH_2-CH=CH_2$
I-513		H	$-CH_2-CH(CH_3)_2$
I-514		H	$-C(CH_3)_2-CN$
I-515	$CH_3-CO-CH_2-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-516	$CH_3COOCH-$ 	H	$-C(CH_3)_2-C\equiv CH$
I-517	$CH_3CO-CH-$ 	H	$-C(CH_3)_2-CN$
I-518		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-519		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-520	$CH_3O-CO-CH_2CH_2-$	H	$-C(CH_3)_2-C\equiv CH$
I-521		$-CH_2CH=CH_2$	$-CH_2-CH=CH_2$
I-522		H	$-C(CH_3)_2-C\equiv CH$

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Table 1 (Continuation)

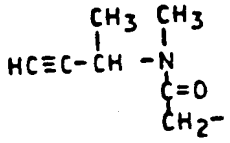
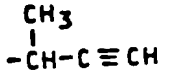
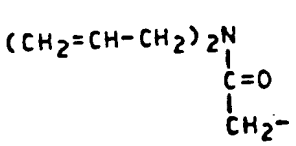
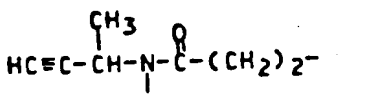
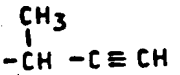
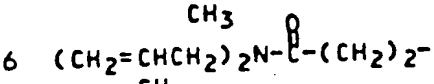
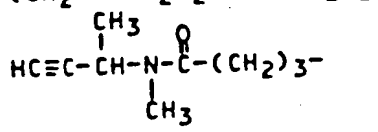
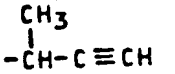
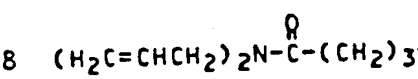
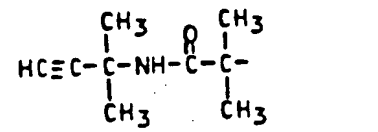
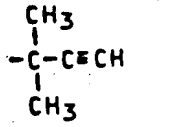
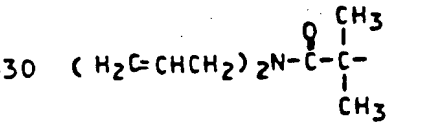
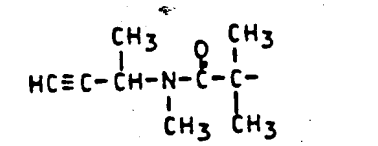
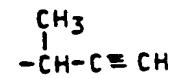
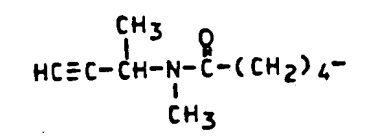
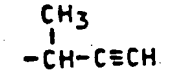
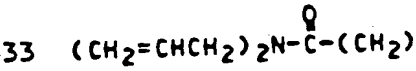
Example No.	R	R^1	R^2
I-523		$-CH_3$	
I-524		$-CH_2CH=CH_2$	$-CH_2-CH=CH_2$
I-525		$-CH_3$	
I-526		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-527		$-CH_3$	
I-528		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-529		H	
I-530		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-531		$-CH_3$	
I-532		$-CH_3$	
I-533		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$

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Table 1 (Continuation)

Example No.	R	R^1	R^2
I-534	$HC\equiv C-C(CH_3)_2-NH-C(=O)-CH_2-C(CH_3)_2-CH_2-$	H	$-C(CH_3)_2-C\equiv CH$
I-535	$HC\equiv C-CH(CH_3)-N(CH_3)-C(=O)-CH_2-O-CH_2-$	$-CH_3$	$-CH(CH_3)-C\equiv CH$
I-536	$(CH_2=CHCH_2)_2N-C(=O)-CH_2-O-CH_2-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-537	$(CH_2=CHCH_2)_2N-S(=O)_2-CH_2-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-538	$CH_2=CH-$	H	$-C(CH_3)_2-C\equiv CH$
I-539	$CH_2=CH-$	CH_3	$-CH(CH_3)-C\equiv CH$
I-540	$CH_3-CH=CH-$	H	$-C(CH_3)_2-C\equiv CH$
I-541	$CH_3-CH=CH-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-542	$CH_2=C(CH_3)-$	H	$-C(CH_3)_2-C\equiv CH$
I-543	$(CH_3)_2C=CH-$	H	$-C(CH_3)_2-C\equiv CH$
I-544	$(CH_3)_2C=CH-$	$-CH_3$	$-CH(CH_3)-C\equiv CH$
I-545	$CH_3-CH=CH-CH=CH-$	H	$-C(CH_3)_2-C\equiv CH$

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Table 1 (Continuation)

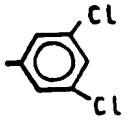
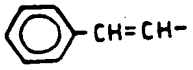
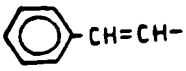
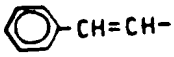
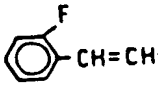
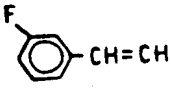
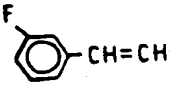
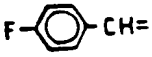
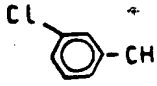
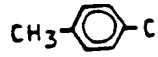
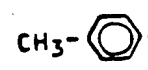
Example No.	R	R^1	R^2
I-546	$CH_3-CH=CH-CH=CH-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-547	$Cl-CH=C(Cl)-$	$-CH_3$	$-CH(CH_3)-C\equiv CH$
I-548	$HO-C(CH_3)=C(COOCH_3)-$	H	
I-549		H	$-C(CH_3)_3$
I-550		H	$-C(CH_3)_2-CN$
I-551		CH_3	$-CH(CH_3)-C\equiv CH$
I-552		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-553		H	$-C(CH_3)_2-CN$
I-554		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-555		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-556		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-557		H	$-C(CH_3)_2-C\equiv CH$
I-558		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$

Table 1 (Continuation)

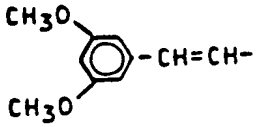
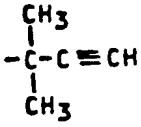
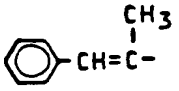
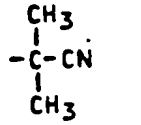
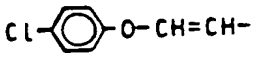
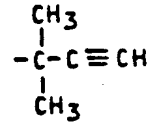
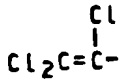
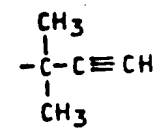
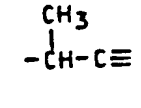
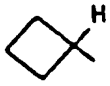
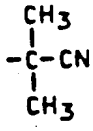
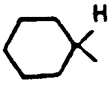
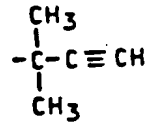
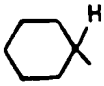
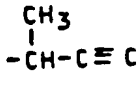
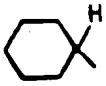
Example No.	R	R^1	R^2
I-559		H	
I-560		H	
I-561		H	
I-562		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-563		H	
I-564		CH_3	
I-565		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-566		H	
I-567		H	
I-568		CH_3	
I-569		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$

Table 1 (Continuation)

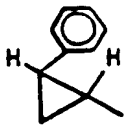
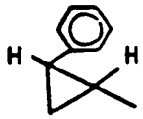
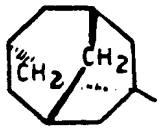
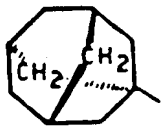
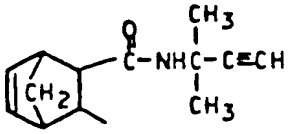
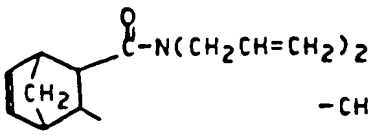
Example No.	R	R^1	R^2
I-570		H	$-C(CH_3)_2-C\equiv CH$
I-571		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-572		H	$-C(CH_3)_2-C\equiv CH$
I-573		H	$-C(CH_3)_2-CN$
I-574		H	$-C(CH_3)_2-C\equiv CH$
I-575		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-576		CH_3	$-CH(CH_3)-C\equiv CH$
I-577		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-578		H	$-C(CH_3)_2-C\equiv CH$
I-579		CH_3	$-CH(CH_3)-C\equiv CH$
I-580		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$

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Table 1 (Continuation)

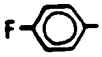
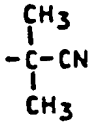
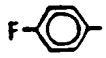
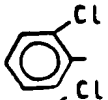
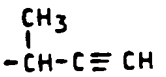
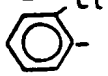
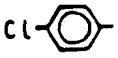
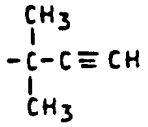
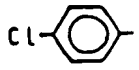
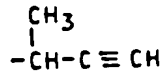
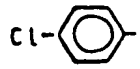
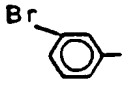
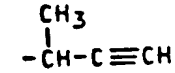
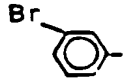
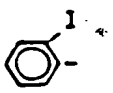
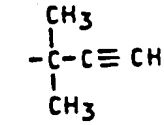
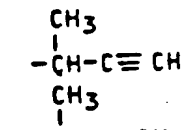
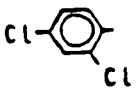
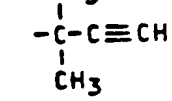
example No.	R	R^1	R^2
I-581		H	
I-582		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-583		CH_3	
I-584		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-585		H	
I-586		CH_3	
I-587		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-588		H	$-C(CH_3)_3$
I-589		$-CH_3$	
I-590		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-591		H	
I-592		$-CH_3$	
I-593		H	

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Table 1 (Continuation)

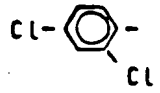
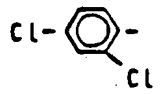
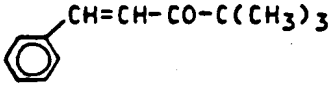
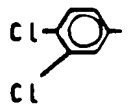
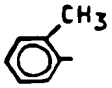
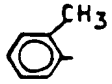
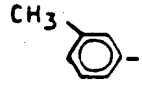
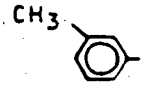
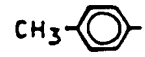
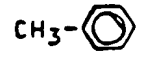
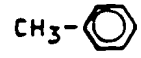
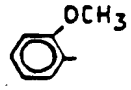
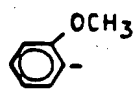
Example No.	R	R^1	R^2
I-594		$-CH_3$	$-CH(CH_3)-C\equiv CH$
I-595		H	
I-596		$-CH_3$	$-CH(CH_3)-C\equiv CH$
I-597		H	$-C(CH_3)_2-C\equiv CH$
I-598		$-CH_3$	$-CH(CH_3)-C\equiv CH$
I-599		$-CH_3$	$-CH(CH_3)-C\equiv CH$
I-600		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-601		H	$-C(CH_3)_2-C\equiv CH$
I-602		CH_3	$-CH(CH_3)-C\equiv CH$
I-603		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-604		H	$-C(CH_3)_2-C\equiv CH$
I-605		$-CH_3$	$-CH(CH_3)-C\equiv CH$
I-606		$-CH_3$	$-CH(CH_3)-C\equiv CH$

Table 1 (Continuation)

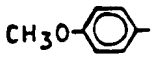
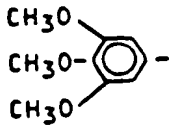
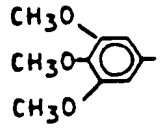
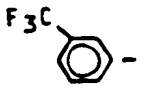
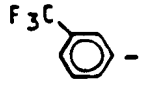
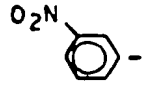
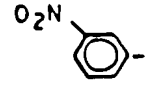
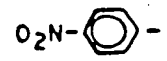
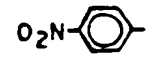
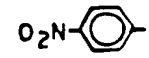
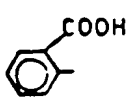
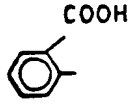
Example No.	R	R^1	R^2
I-607		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-608		$-CH_3$	$-CH(CH_3)-C\equiv CH$
I-609		$-CH_3$	$-CH(CH_3)-C\equiv CH$
I-610		$-CH_3$	$-CH(CH_3)-C\equiv CH$
I-611		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-612		H	$-C(CH_3)_2-C\equiv CH$
I-613		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-614		H	$-C(CH_3)_2-C\equiv CH$
I-615		$-CH_3$	$-CH(CH_3)-C\equiv CH$
I-616		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-617		H	$-C(CH_3)_2-C\equiv CH$
I-618		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$

Table 1 (Continuation)

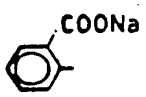
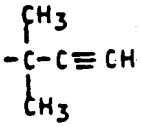
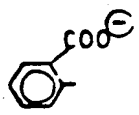
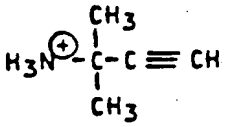
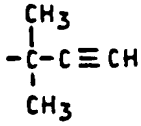
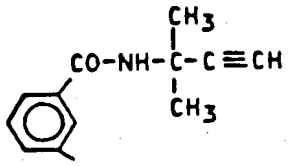
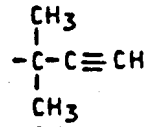
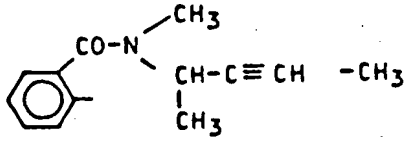
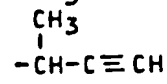
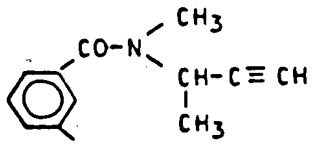
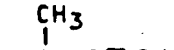
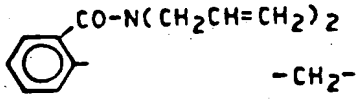
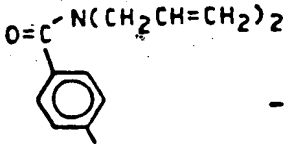
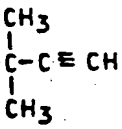
Example No.	R	R^1	R^2
I-619		H	
I-620	 	H	
I-621		H	
I-622		$-CH_3$	
I-623		$-CH_3$	
I-624		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-625		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-626	$ClCH_2-CO-NH-$ 	H	

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Table 1 (Continuation)

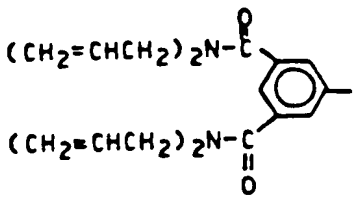
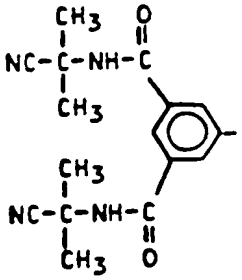
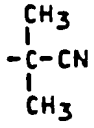
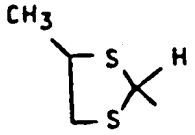
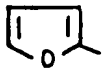
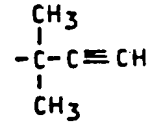
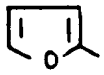
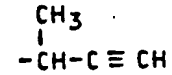
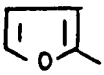
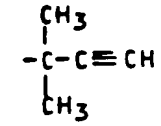
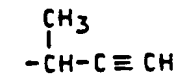
Example No.	R	R^1	R^2
I-627		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-628		H	
I-629		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-630		H	
I-631		$-CH_3$	
I-632		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-633		H	
I-634		$-CH_3$	
I-635		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$

Table 1 (Continuation)

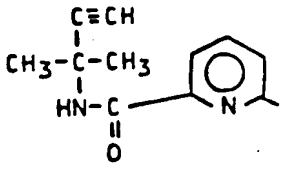
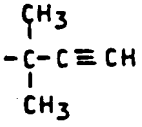
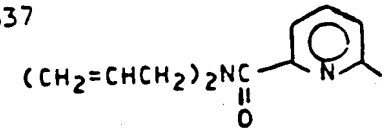
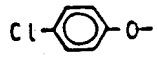
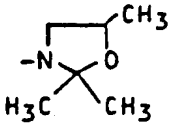
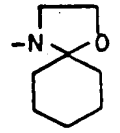
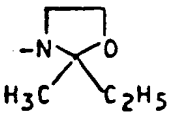
Example No.	R	R^1	R^2 or $-N\begin{smallmatrix}R^1\\R^2\end{smallmatrix}$
I-636		H	
I-637		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-638	$Cl-CH_2CH_2O-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-639		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-640	$CH_3-C\equiv C-CH_2O-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-641		$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-642	$C_2H_5O-\overset{O}{\overset{\|}{C}}-$	$-CH_3$	$-\underset{CH_3}{\underset{\|}{CH}}-C\equiv CH$
I-643	$C_2H_5O-\overset{O}{\overset{\|}{C}}-$	$-CH_2-CH=CH_2$	$-CH_2-CH=CH_2$
I-644	$HC\equiv C-\underset{CH_3}{\overset{CH_3}{\overset{\|}{\underset{\|}{C}}}}-NH-\overset{O}{\overset{\|}{C}}-$	H	$-\underset{CH_3}{\overset{CH_3}{\overset{\|}{C}}}-C\equiv CH$
I-645	$HC\equiv C-\underset{CH_3}{\overset{CH_3}{\overset{\|}{CH}}}-N(\overset{CH_3}{\overset{\|}{\ }})-\overset{O}{\overset{\|}{C}}-$	$-CH_3$	$-\underset{CH_3}{\overset{CH_3}{\overset{\|}{CH}}}-C\equiv CH$
I-646	$(CH_2=CH-CH_2)_2N-\overset{O}{\overset{\|}{C}}-$	$-CH_2CH=CH_2$	$-CH_2-CH=CH_2$

Table 1 (Continuation)

Example No.	R	R^1	R^2	or $-N\begin{matrix}R^1\\R^2\end{matrix}$
I-647	Cl_2CH-			
I-648	Cl_2CH-			
I-649	Cl_2CH-	$-CH_2-CH=CH_2$	$-CH_2-CO-NH-CH_2-CH=CH_2$	
I-650	Cl_2CH-			

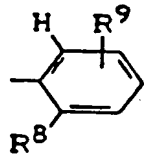
~~Le A 24 460~~

The amides of the formula (I) which can be used according to the invention are known (compare, for example, DE-OS (German Published Specification) 2,828,265, DE-OS (German Published Specification) 3,228,007, DE-OS (German Published Specification) 2,218,097, DE-OS (German Published Specification) 2,350,547, DE-OS (German Published Specification) 3,426,541, DE-OS (German Published Specification) 2,905,560 and U.S. Patent Specification 4,531,970).

As already mentioned, the amides of the formula (I) which can be used according to the invention are suitable for improving the crop plant tolerance of herbicidally active sulphonyliso(thio)urea derivatives of the forula (II).

Formula (II) provides a general definition of the herbicidally active sulphonylurea derivatives which can be used according to the invention.

Herbicidal sulphonyliso(thio)urea derivatives of the formula (II) which can preferably be used are those in which

R^3 represents the radical 

wherein

R^8 and R^9 are identical or different and represent hydrogen, halogen [such as, in particular, fluorine, chlorine, bromine and/or iodine], cyano, nitro or C_1-C_6-alkyl [which is optionally substituted by fluorine, chlorine, bromine, cyano, carboxyl, C_1-C_4-alkoxycarbonyl, C_1-C_4-alkylamino-carbonyl, di-(C_1-C_4-alkyl)-amino-carbonyl, hydroxyl, C_1-C_4-alkoxy, formyloxy, C_1-C_4-alkylcarbonyloxy, C_1-C_4-alkoxy-carbonyloxy, C_1-C_4-alkylamino-carbonyloxy, C_1-C_4-alkylthio, C_1-C_4-

alkylsulphinyl, C_1-C_4-alkylsulphonyl, di-(C_1-C_4-alkyl)-aminosulphonyl, C_3-C_6-cycloalkyl or phenyl], or represent C_2-C_6-alkenyl [which is optionally substituted by fluorine, chlorine, bromine, cyano, C_1-C_4-alkoxycarbonyl, carboxyl or phenyl], or represent C_2-C_6-alkinyl [which is optionally substituted by fluorine, chlorine, bromine, cyano, C_1-C_4-alkoxy-carbonyl, carboxyl or phenyl], or represent C_1-C_4-alkoxy [which is optionally substituted by fluorine, chlorine, bromine, cyano, carboxyl, C_1-C_4-alkoxyimino-C_1-C_4-alkyl, C_1-C_4-alkoxy-carbonyl, C_1-C_4-alkoxy, C_1-C_4-alkylthio, C_1-C_4-alkylsulphinyl or C_1-C_4-alkylsulphonyl], or represent C_1-C_4-alkylthio [which is optionally substituted by fluorine, chlorine, bromine, cyano, carboxyl, C_1-C_4-alkoxycarbonyl, C_1-C_4-alkylthio, C_1-C_4-alkylsulphinyl or C_1-C_4-alkylsulphonyl], or represent C_3-C_6-alkenyloxy [which is optionally substituted by fluorine, chlorine, bromine, cyano or C_1-C_4-alkoxy-carbonyl], or represent C_2-C_6-alkenylthio [which is optionally substituted by fluorine, chlorine, bromine, cyano, nitro, C_1-C_3-alkylthio or C_1-C_4-alkoxycarbonyl], C_3-C_6-alkinyloxy or C_3-C_6-alkinylthio, or represent the radical $-S(O)_p-R^{10}$,

wherein

p represents the number 1 or 2 and

R^{10} represents C_1-C_4-alkyl [which is optionally substituted by fluorine, chlorine, bromine, cyano or C_1-C_4-alkoxy-carbonyl], C_3-C_6-alkenyl, C_3-C_6-alkinyl, C_1-C_4-alkoxy, C_1-C_4-alkoxy-amino, C_1-C_4-alkoxy-C_1-C_4-alkylamino, C_1-C_4-alkylamino or di(C_1-C_4-alkyl)-amino,

or furthermore

R^8 and R^9 represent phenyl or phenoxy, or represent

C_1-C_4-alkylcarbonylamino, C_1-C_4-alkoxycarbonylamino, C_1-C_4-alkylamino-carbonylamino, di-(C_1-C_4-alkyl)-amino-carbonylamino, or represent the radical -CO-R^{11},

wherein

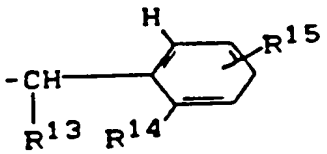
R^{11} represents C_1-C_6-alkyl, C_1-C_6-alkoxy, C_1-C_4-alkoxyimino-C_1-C_4-alkoxy, C_3-C_6-cycloalkoxy, C_3-C_6-alkenyloxy, C_1-C_4-alkylthio, C_1-C_4-alkylamino, C_1-C_4-alkoxyamino, C_1-C_4-alkoxy-C_1-C_4-alkyl-amino or di-(C_1-C_4-alkyl)amino [which are optionally substituted by fluorine and/or chlorine], or furthermore R^8 and R^9 represent C_1-C_4-alkylsulphonyl-C_1-C_4-alkylsulphonyloxy, di-(C_1-C_4-alkyl)-aminosulphonylamino or represent the radical -CH=N-R^{12},

wherein

R^{12} represents C_1-C_6-alkyl which is optionally substituted by fluorine, chlorine, cyano, carboxyl, C_1-C_4-alkoxycarbonyl, C_1-C_4-alkylthio, C_1-C_4-alkylsulphinyl or C_1-C_4-alkylsulphonyl, or represents benzyl which is optionally substituted by fluorine or chlorine, or represents C_3-C_6-alkenyl or C_3-C_6-alkinyl which is optionally substituted by fluorine or chlorine, or represents phenyl which is optionally substituted by fluorine, chlorine, bromine, C_1-C_4-alkyl, C_1-C_4-alkoxy, trifluoromethyl, trifluoromethoxy or trifluoromethylthio, or represents C_1-C_6-alkoxy, C_3-C_6-alkenoxy, C_3-C_6-alkinoxy or benzyloxy which is optionally substituted by fluorine and/or chlorine, or represents amino, C_1-C_4-alkylamino, di-(C_1-C_4-alkyl)amino, phenylamino, C_1-C_4-alkyl-carbonyl-amino, C_1-C_4-alkoxy-carbonylamino, or C_1-C_4-alkyl-sulphonylamino, or represents phenylsulphonylamino which is optionally substitu-

ted by fluorine, chlorine, bromine or methyl;

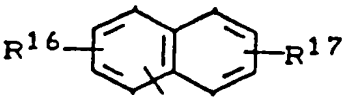
and wherein, furthermore,

R^3 represents the radical 

wherein

R^{13} represents hydrogen or C_1-C_4-alkyl and R^{14} and R^{15} are identical or different and represent hydrogen, fluorine, chlorine, bromine, nitro cyano, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine], C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine], carboxyl, C_1-C_4-alkoxycarbonyl, C_1-C_4-alkylsulphonyl or di-(C_1-C_4-alkyl)-aminosulphonyl;

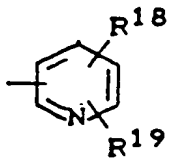
or wherein, furthermore,

R^3 represents the radical 

wherein

R^{16} and R^{17} are identical or different and represent hydrogen, fluorine, chlorine, bromine, nitro, cyano, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine] or C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine];

or wherein, furthermore,

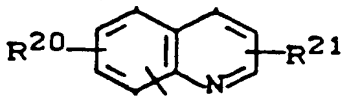
R^3 represents the radical 

wherein

R^{18} and R^{19} are identical or different and represent hydrogen, fluorine, chlorine, bromine, nitro, cyano, C_1-C_4-alkyl [which is optionally sub-

stituted by fluorine and/or chlorine] or C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine], or represent C_1-C_4-alkylthio, C_1-C_4-alkylsulphinyl or C_1-C_4-alkylsulphonyl [which are optionally substituted by fluorine and/or chlorine], or represent di-(C_1-C_4-alkyl)-aminosulphonyl or C_1-C_4-alkoxy-carbonyl;

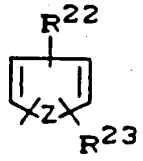
or wherein, furthermore,

R^3 represents the radical 

wherein

R^{20} and R^{21} are identical or different and represent hydrogen, fluorine, chlorine, bromine, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or bromine] or C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine], or represent C_1-C_4-alkylthio, C_1-C_4-alkylsulphinyl or C_1-C_4-alkylsulphonyl [which are optionally substituted by fluorine and/or chlorine], or represent di-(C_1-C_4-alkyl)-aminosulphonyl;

or wherein, furthermore,

R^3 represents the radical 

wherein

R^{22} and R^{23} are identical or different and represent hydrogen, fluorine, chlorine, bromine, cyano, nitro, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine], C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine], C_1-C_4-alkylthio, C_1-C_4-alkylsulphinyl or C_1-C_4-alkylsulphonyl [which is option-

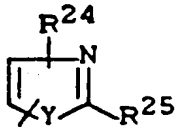
ally substituted by fluorine and/or chlorine], di-(C_1-C_4-alkyl)-amino-sulphonyl or C_1-C_4-alkoxy-carbonyl and

Z represents oxygen, sulphur or the grouping N-Z^1,

wherein

Z^1 represents hydrogen, C_1-C_4-alkyl [which is optionally substituted by fluorine, chlorine, bromine or cyano], C_3-C_6-cycloalkyl, benzyl, phenyl [which is optionally substituted by fluorine, chlorine, bromine or nitro], C_1-C_4-alkyl-carbonyl, C_1-C_4-alkoxy-carbonyl or di-(C_1-C_4-alkyl)-amino-carbonyl;

or wherein, furthermore,

R^3 represents the radical 

wherein

R^{24} represents hydrogen, C_1-C_5-alkyl or halogen,

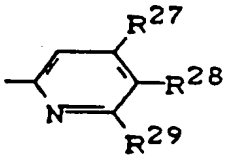
R^{25} represents hydrogen or C_1-C_5-alkyl and

Y represents sulphur or the grouping N-R^{26},

wherein

R^{26} represents hydrogen or C_1-C_5-alkyl;

and wherein, furthermore,

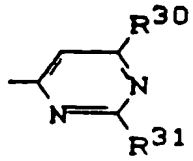
R^4 represents the radical 

wherein

R^{27} and R^{29} are identical or different and represent hydrogen, fluorine, chlorine, bromine, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine] or C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine], with the proviso that at least one of the radicals R^{27} and R^{29} is other than hydrogen, and

R^{28} represents hydrogen, fluorine, chlorine, bromine, cyano or C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine];

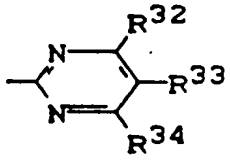
or wherein, furthermore,

R^4 represents the radical 

wherein

R^{30} and R^{31} are identical or different and represent hydrogen, fluorine, chlorine, bromine, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine], C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine], C_1-C_4-alkylamino or di-(C_1-C_4-alkyl)-amino, with the proviso that at least one of the radicals R^{30} and R^{31} is other than hydrogen;

or wherein, furthermore,

R^4 represents the radical 

wherein

R^{32} represents hydrogen, fluorine, chlorine, bromine, hydroxyl or C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine] or C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine],

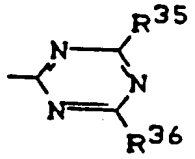
R^{33} represents hydrogen, fluorine, chlorine, bromine, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine], cyano, formyl, C_1-C_4-alkyl-carbonyl or C_1-C_4-alkoxy-carbonyl and

R^{34} represents hydrogen, fluorine, chlorine,

bromine, hydroxyl, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine], C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine], amino, C_1-C_4-alkylamino or di-(C_1-C_4-alkyl)-amino, or

R^{33} and R^{34} together represent C_3-C_4-alkanediyl;

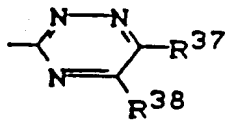
or wherein, furthermore,

R^4 represents the radical 

wherein

R^{35} and R^{36} are identical or different and represent fluorine, chlorine, bromine, hydroxyl, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine], C_3-C_5-cycloalkyl, C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine] or C_1-C_4-alkylthio, or represent C_1-C_4-alkyl-amino or di-(C_1-C_4-alkyl)-amino;

and wherein, furthermore,

R^4 represents the radical 

wherein

R^{37} and R^{38} are identical or different and represent hydrogen, methyl or methoxy;

and wherein, furthermore,

R^5 represents C_1-C_{12}-alkyl [which is optionally substituted by fluorine, chlorine, cyano, C_1-C_4-alkoxy, C_1-C_4-alkylthio, C_1-C_4-alkylsulphinyl, C_1-C_4-alkylsulphonyl, C_1-C_4-alkyl-carbonyl, C_1-C_4-alkoxy-carbonyl, C_1-C_4-alkylaminocarbonyl or di-(C_1-C_4-alkyl)-aminocarbonyl], or repres-

ents C_3-C_6-alkenyl, C_3-C_6-alkinyl, C_3-C_6-cycloalkyl, C_3-C_6-cycloalkyl-C_1-C_2-alkyl or phenyl-C_1-C_2-alkyl [which is optionally substituted in the phenyl part by fluorine, chlorine, nitro, cyano, C_1-C_4-alkyl, C_1-C_4-alkoxy or C_1-C_4-alkoxy-carbonyl],

or wherein, furthermore,

R^5 represents a phenyl radical which is optionally substituted by one or more radicals from the series comprising halogen [such as, in particular, fluorine, chlorine, bromine and iodine], cyano, nitro, hydroxy, carboxy, C_1-C_6-alkyl [which is optionally substituted by fluorine, chlorine, bromine, nitro, cyano, hydroxyl, carboxyl, C_1-C_4-alkoxy-carbonyl, C_1-C_4-alkoxy, C_1-C_4-alkylthio or phenyl], C_3-C_6-cycloalkyl, C_1-C_4-alkoxy [which is optionally substituted by fluorine, chlorine, bromine, cyano, carboxy, C_1-C_4-alkoxy, C_1-C_4-alkylthio or C_1-C_4-alkoxy-carbonyl], C_1-C_4-alkylthio [which is optionally substituted by fluorine, chlorine, bromine, cyano, carboxyl, or C_1-C_4-alkoxy-carbonyl], amino, C_1-C_4-alkyl-amino and di-(C_1-C_4-alkyl)-amino [which are optionally substituted by fluorine, chlorine, bromine, cyano, carboxyl, C_1-C_4-alkoxy or C_1-C_4-alkoxy-carbonyl], C_1-C_4-alkyl-carbonylamino, C_1-C_4-alkoxy-carbonylamino, (di)-C_1-C_4-alkyl-amino-carbonyl-amino, formyl, C_1-C_4-alkyl-carbonyl, benzoyl, C_1-C_4-alkoxy-carbonyl, phenoxy-carbonyl, benzyloxycarbonyl, phenyl [which is optionally substituted by fluorine, chlorine, bromine, cyano, nitro, hydroxyl or methyl], phenoxy, phenylthio, phenylsulphonyl, phenylamino and phenylazo [which are optionally substituted by fluorine, chlorine, bromine, cyano, nitro, methyl and/or trifluoromethyl], pyridoxy and pyrimidoxy

[which are optionally substituted by fluorine, chlorine, bromine, cyano, nitro, methyl and/or trifluoromethyl], C_1-C_4-alkyl-carbonyloxy, C_1-C_4-alkoxy-carbonyloxy, C_1-C_4-alkyl-amino-carbonyloxy and di-(C_1-C_4-alkyl)-amino-carbonyloxy, or which is optionally fused by an alkylene chain [which is optionally branched and/or interrupted by one or more oxygen atoms] or a benzo radical [which is optionally substituted by fluorine, chlorine, bromine, cyano, nitro, methyl and/or trifluoromethyl];

or wherein, furthermore,

R^5 represents a five- or six-membered heteroaromatic ring which contains 1 to 3 nitrogen atoms and/or an oxygen or sulphur atom and which is optionally benzo-fused and/or substituted by fluorine, chlorine, bromine, cyano, nitro, C_1-C_3-alkyl or C_1-C_3-alkoxy [the latter being optionally substituted by fluorine and/or chlorine];

and wherein, furthermore,

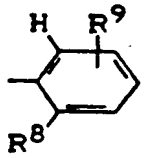
X represents oxygen or sulphur and

M represents hydrogen or one equivalent of sodium, potassium, magnesium, calcium, aluminium, manganese, iron, cobalt or nickel.

The adducts of compounds of the formula (II) - as defined above - with hydrogen halide acids, such as hydrogen fluoride, hydrogen chloride, hydrogen bromide or hydrogen iodide, with sulphuric acid, with alkanesulphonic acids which have 1 to 4 carbon atoms and are optionally substituted by fluorine and/or chlorine or benzene- or naphthalenesulphonic acids which are optionally substituted by fluorine, chlorine, bromine or methyl can furthermore preferably be used.

Herbicidal sulphonyliso(thio)urea derivatives of the formula (II) which can be particularly preferably used are those

in which

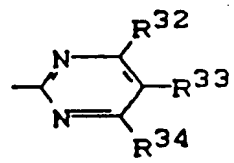
(A) R^3 represents the radical 

wherein

R^8 represents fluorine, chlorine, bromine, methyl, trifluoromethyl, methoxy, difluoromethoxy, trifluoromethoxy, C_1-C_3-alkylthio, difluoromethylthio, trifluoromethylthio, C_1-C_3-alkylsulphinyl, C_1-C_3-alkylsulphonyl, dimethylaminosulphonyl, diethylaminosulphonyl, N-methoxy-N-methylaminosulphonyl, phenyl, phenoxy, C_1-C_3-alkoxy-carbonyl or C_1-C_3-alkyl-aminocarbonyl and

R^9 represents hydrogen;

and wherein, furthermore,

R^4 represents the radical 

wherein

R^{32} represents hydrogen, fluorine, chlorine, bromine, hydroxyl, C_1-C_3-alkyl, C_1-C_3-alkoxy or difluoromethoxy,

R^{33} represents hydrogen, chlorine, bromine or methyl and

R^{34} represents C_1-C_3-alkyl, hydroxy, fluorine, chlorine, bromine or C_1-C_3-alkoxy;

and wherein, furthermore,

R^5 represents C_1-C_8-alkyl [which is optionally substituted by fluorine, chlorine, cyano, C_1-C_2-alkoxy or C_1-C_2-alkoxy-carbonyl], or represents C_3-C_4-alkenyl, C_3-C_4-alkinyl or benzyl [which is optionally substituted in the phenyl part by fluorine, chlorine, nitro, cyano, methyl, methoxy or C_1-C_2-alkoxycarbonyl], or

R^5 represents a phenyl radical, which is optionally substituted by one or two radicals from the series comprising fluorine, chlorine, bromine, iodine, cyano, nitro, hydroxyl, carboxyl, C_1-C_3-alkoxy-carbonyl, C_1-C_4-alkyl, trifluoromethyl, hydroxymethyl, methoxycarbonylmethyl, phenyl-C_1-C_3-alkyl, cyclohexyl, C_1-C_3-alkoxy, trifluoromethoxy, C_1-C_3-alkylthio, trifluoromethylthio, dimethylamino, amino, acetylamino, methylaminocarbonyl, formyl, acetyl, benzoyl, phenyl, hydroxyphenyl, phenoxy [which is optionally substituted by chlorine and/or trifluoromethyl], phenylamino, phenylazo and pyridoxy [which is optionally substituted by chlorine and/or trifluoromethyl], or which is optionally benzo-fused;

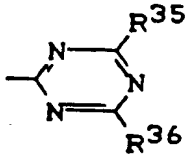
and wherein, furthermore,

X represents oxygen or sulphur and

M represents hydrogen or one equivalent of sodium, potassium or calcium;

or wherein, furthermore,

(B) R^3, R^5, X and M have the meaning given above under (A) and

R^4 represents the radical 

wherein

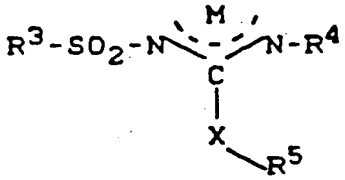
R^{35} represents fluorine, chlorine, cyclopropyl, C_1-C_2-alkyl, C_1-C_2-alkoxy or C_1-C_2-alkylthio and

R^{36} represents fluorine, chlorine, cyclopropyl, C_1-C_2-alkyl, C_1-C_2-alkoxy, C_1-C_2-alkylamino or di-(C_1-C_2-alkyl)-amino.

Adducts of compounds of the formula (I) - as defined above - with hydrogen halide acids, such as

hydrogen chloride, hydrogen bromide and hydrogen iodide, with sulphuric acid, with alkanesulphonic acids which have 1 to 4 carbon atoms and are optionally substituted by fluorine and/or chlorine or with benzene- or naphthalene-sulphonic acids which are optionally substituted by fluorine, chlorine, bromine or methyl can furthermore be particularly preferably used.

The following compounds of the general formula (II) may be mentioned specifically:



(II)

Table 2

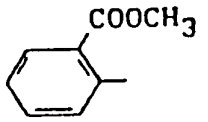
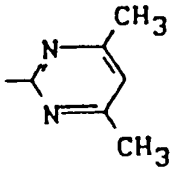
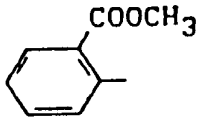
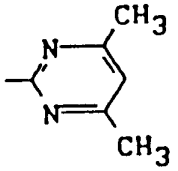
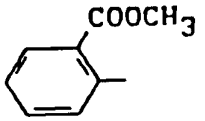
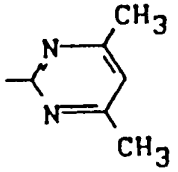
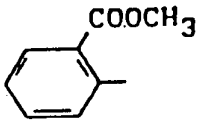
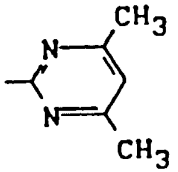
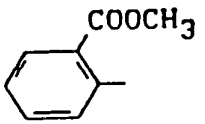
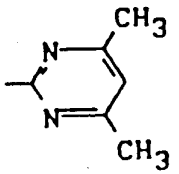
Example No.	R^3	R^4	R^5	X	M
II-1			$-CH_3$	O	H
II-2			$-C_2H_5$	O	H
II-3			$-CH_2CF_3$	O	H
II-4			$-CH_2CH_2Cl$	O	H
II-5			$-C_3H_7$-i	O	H

Table 2 - Continuation

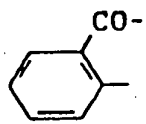
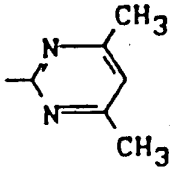
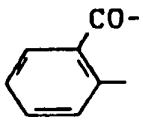
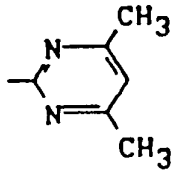
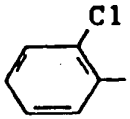
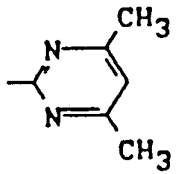
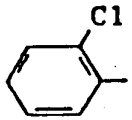
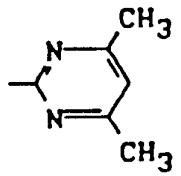
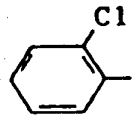
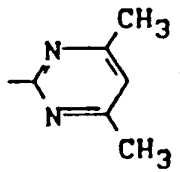
Example No.	R^3	R^4	R^5	X	M
II-6			$-CH_3$	O	H
II-7			$-CH_3$	O	H
II-8			$-CH_3$	O	H
II-9			$-C_2H_5$	O	H
II-10			$-CH_2CH_2Cl$	O	H

Table 2 - Continuation

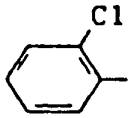
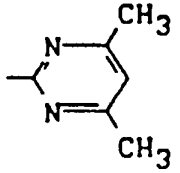
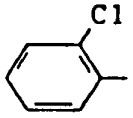
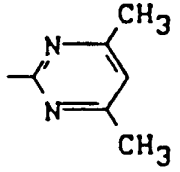
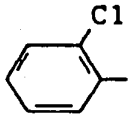
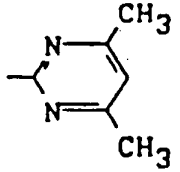
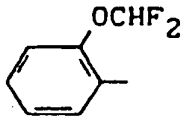
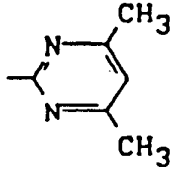
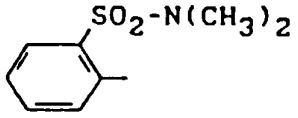
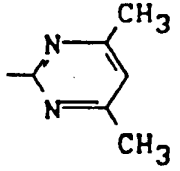
Example No.	R^3	R^4	R^5	X	M
II-11			$-C_3H_7$-i	O	H
II-12			$-CH_2COOC_2H_5$	O	H
II-13			$-CH(CH_3)-COOC_2H_5$	O	H
II-14			$-C_2H_5$	O	H
II-15			$-CH_3$	O	H

Table 2 - Continuation

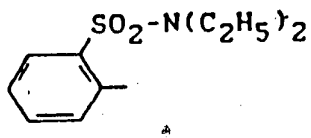
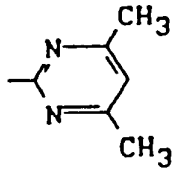
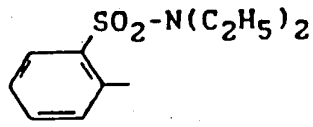
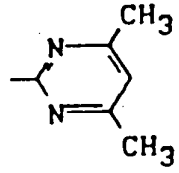
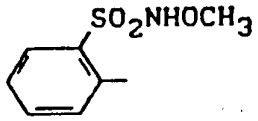
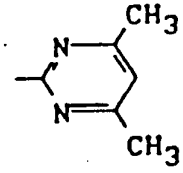
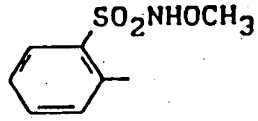
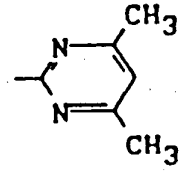
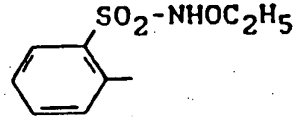
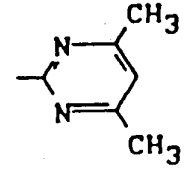
Example No.	R^3	R^4	R^5	X	M
II-16			$-CH_3$	O	H
II-17			$-C_2H_5$	O	H
II-18			$-C_2H_5$	O	H
II-19			$-CH_3$	O	H
II-20			$-C_2H_5$	O	H

Table 2 - Continuation

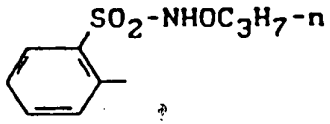
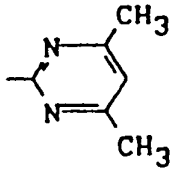
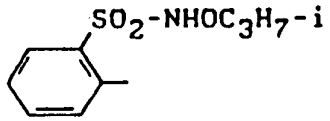
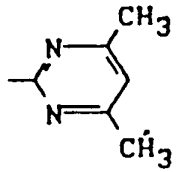
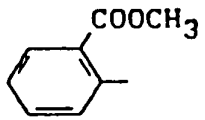
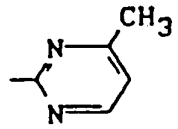
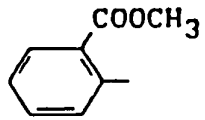
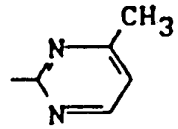
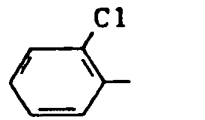
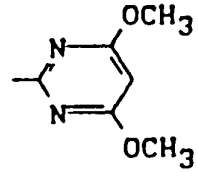
Example No.	R^3	R^4	R^5	X	M
II-21			$-C_2H_5$	O	H
II-22			$-C_2H_5$	O	H
II-23			$-C_2H_5$	O	H
II-24			$-C_3H_7$-i	O	H
II-25			$-CH_3$	O	H

Table 2 - Continuation

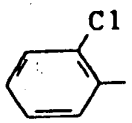
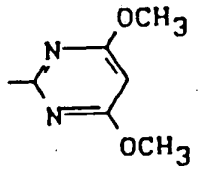
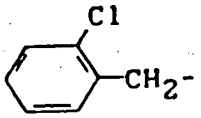
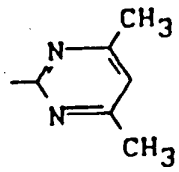
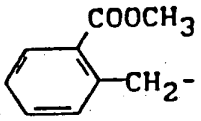
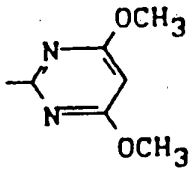
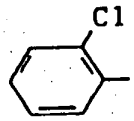
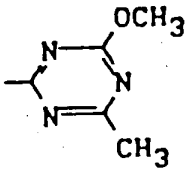
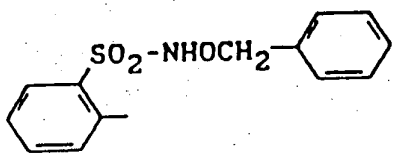
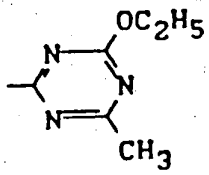
Example No.	R^3	R^4	R^5	X	M
II-26			$-C_2H_5$	O	H
II-27			$-CH_3$	O	H
II-28			$-CH_3$	O	H
II-29			$-CH_3$	O	H
II-30			$-CH_3$	O	H

Table 2 - Continuation

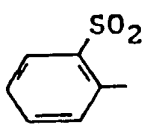
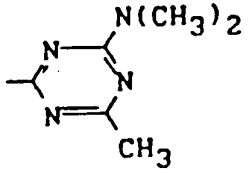
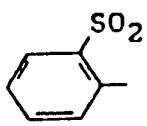
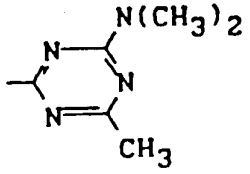
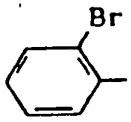
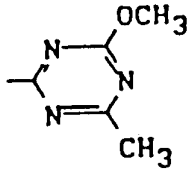
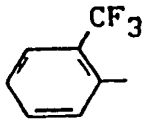
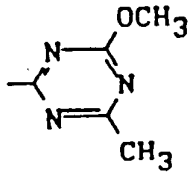
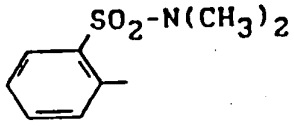
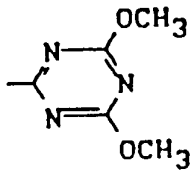
Example No.	R^3	R^4	R^5	X	M
II-31			$-C_2H_5$	O	H
II-32			$-C_2H_5$	O	K
II-33			$-CH_3$	O	H
II-34			$-C_2H_5$	O	H
II-35			$-CH_3$	O	H

Table 2 - Continuation

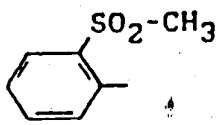
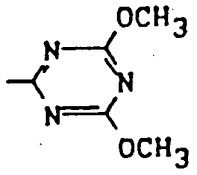
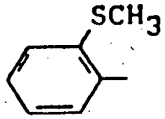
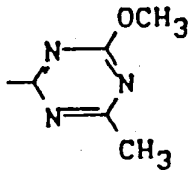
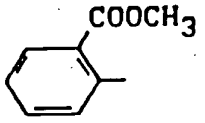
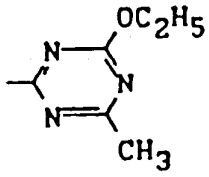
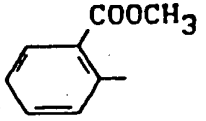
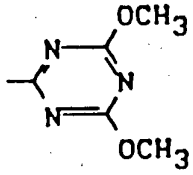
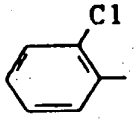
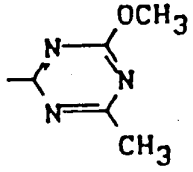
Example No.	R^3	R^4	R^5	X	M
II-36			$-C_3H_7$-i	O	H
II-37			$-CH_3$	O	H
II-38			$-CH_3$	O	H
II-39			$-CH_3$	O	H
II-40			$-C_3H_7$-i	O	H

Table 2 - Continuation

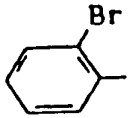
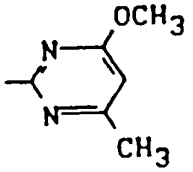
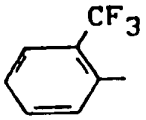
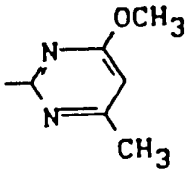
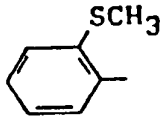
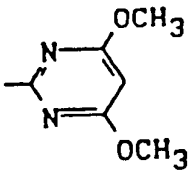
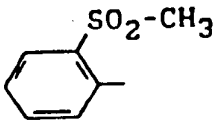
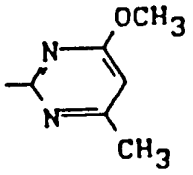
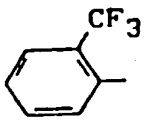
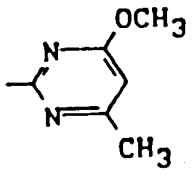
Example No.	R^3	R^4	R^5	X	M
II-41			$-CH_3$	O	H
II-42			$-CH_3$	O	H
II-43			$-CH_3$	O	H
II-44			$-CH_3$	O	H
II-45			$-C_3H_7$-i	O	H

Table 2 - Continuation

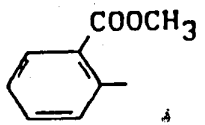
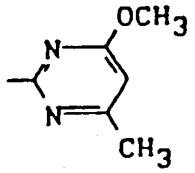
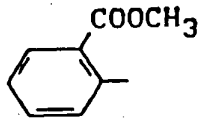
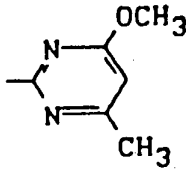
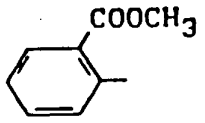
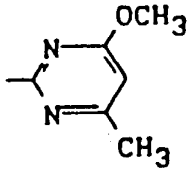
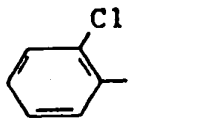
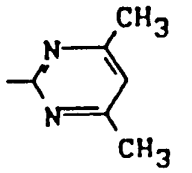
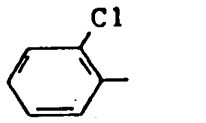
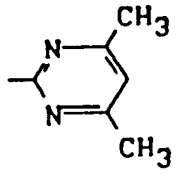
Example No.	R^3	R^4	R^5	X	M
II-46			$-CH_2COOCH_3$	O	H
II-47			$-CH_2CH=CH_2$	O	H
II-48			$-CH_2CH_2OCH_3$	O	H
II-49			$-CH_3$	S	H
II-50			$-CH_2CH_2OH$	S	H

Table 2 - Continuation

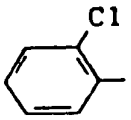
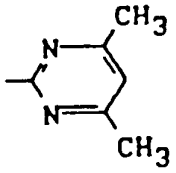
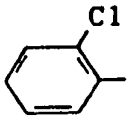
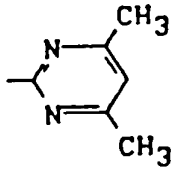
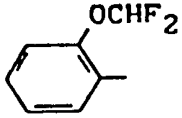
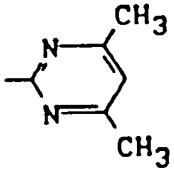
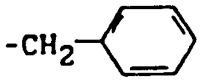
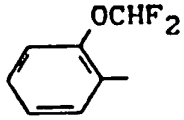
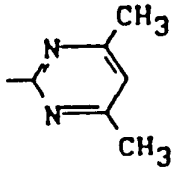
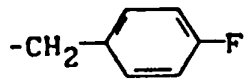
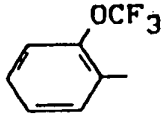
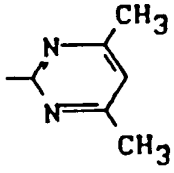
Example No.	R^3	R^4	R^5	X	M
II-51			$-CH_2COOCH_3$	S	H
II-52			$-CH_2CH_2OCH_3$	O	H
II-53				S	H
II-54				S	H
II-55			$-CH_3$	S	H

Table 2 - Continuation

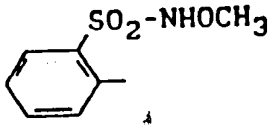
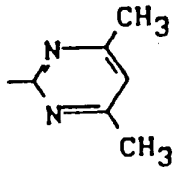
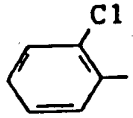
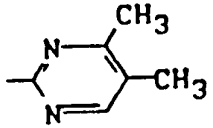
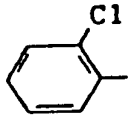
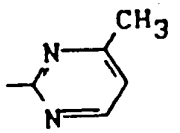
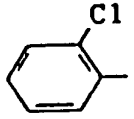
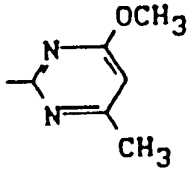
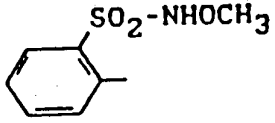
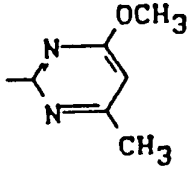
Example No.	R^3	R^4	R^5	X	M
II-56			$-CH_3$	S	H
II-57			$-CH_3$	S	H
II-58			$-CH_3$	S	H
II-59			$-CH_3$	S	H
II-60			$-CH_3$	S	H

Table 2 - Continuation

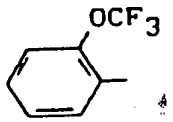
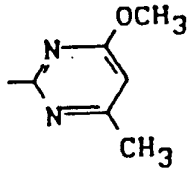
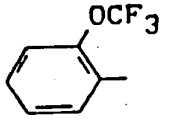
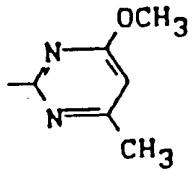
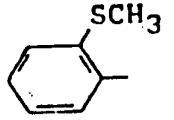
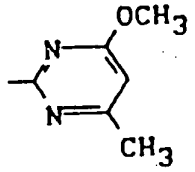
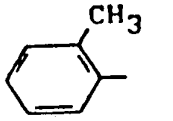
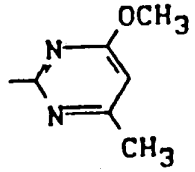
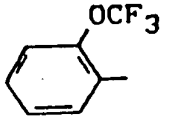
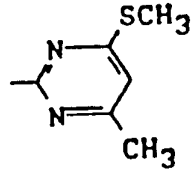
Example No.	R^3	R^4	R^5	X	M
II-61			$-CH_3$	S	H
II-62			$-C_2H_5$	S	H
II-63			$-CH_3$	S	H
II-64			$-CH_3$	S	H
II-65			$-CH_3$	S	H

Table 2 - Continuation

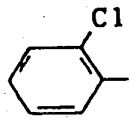
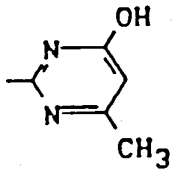
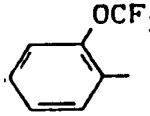
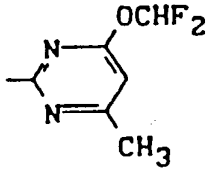
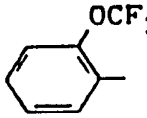
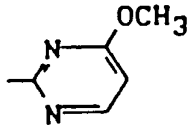
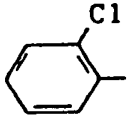
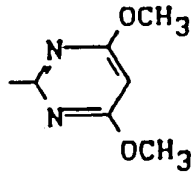
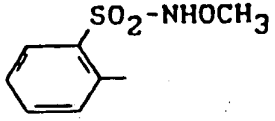
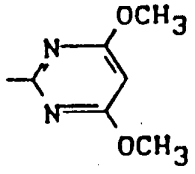
Example No.	R^3	R^4	R^5	X	M
II-66			$-CH_3$	S	H
II-67			$-CH_3$	S	H
II-68			$-CH_3$	S	H
II-69			$-CH_3$	S	H
II-70			$-CH_3$	S	H

Table 2 - Continuation

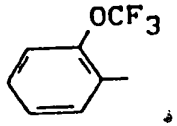
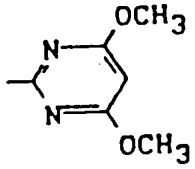
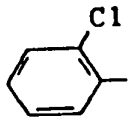
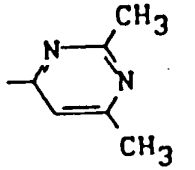
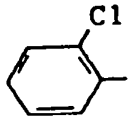
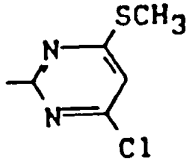
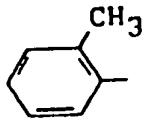
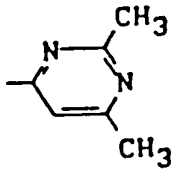
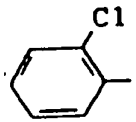
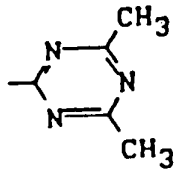
Example No.	R^3	R^4	R^5	X	M
II-71			$-CH_3$	S	H
II-72			$-CH_3$	S	H
II-73			$-CH_3$	S	H
II-74			$-CH_3$	S	H
II-75			$-CH_3$	S	H

Table 2 - Continuation

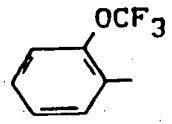
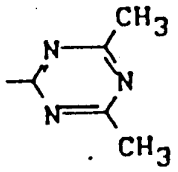
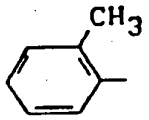
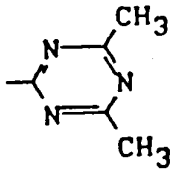
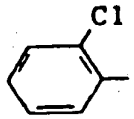
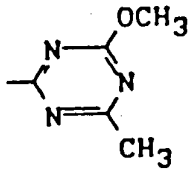
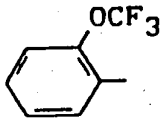
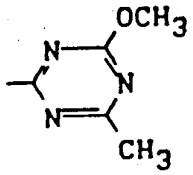
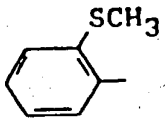
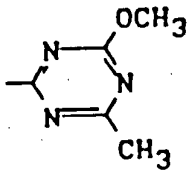
Example No.	R^3	R^4	R^5	X	M
II-76			$-CH_3$	S	H
II-77			$-CH_3$	S	H
II-78			$-CH_3$	S	H
II-79			$-CH_3$	S	H
II-80			$-CH_3$	S	H

Table 2 - Continuation

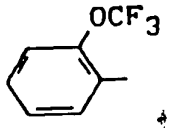
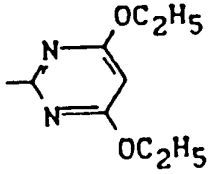
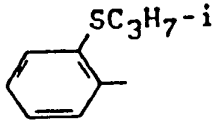
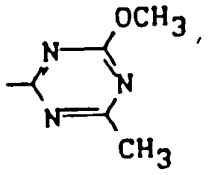
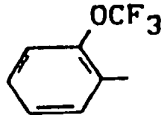
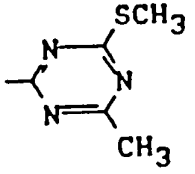
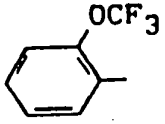
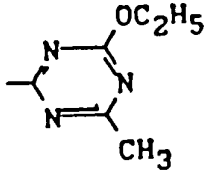
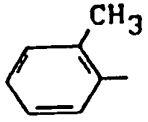
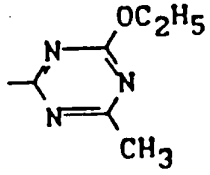
Example No.	R^3	R^4	R^5	X	M
II-81			$-CH_3$	S	H
II-82			$-CH_3$	S	H
II-83			$-CH_3$	S	H
II-84			$-CH_3$	S	H
II-85			$-CH_3$	S	H

Table 2 - Continuation

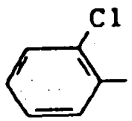
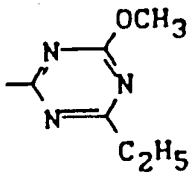
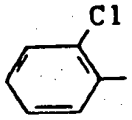
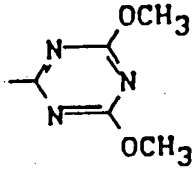
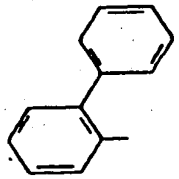
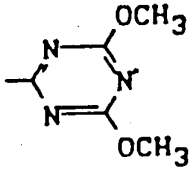
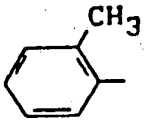
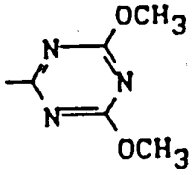
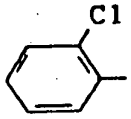
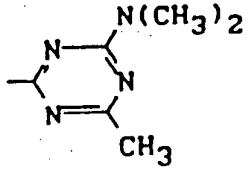
Example No.	R^3	R^4	R^5	X	M
II-86			$-CH_3$	S	H
II-87			$-CH_3$	S	H
II-88			$-CH_3$	S	H
II-89			$-CH_3$	S	H
II-90			$-CH_3$	S	H

Table 2 - Continuation

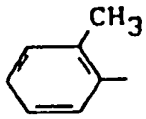
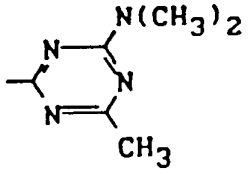
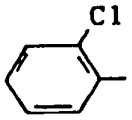
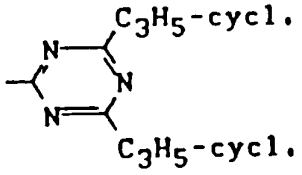
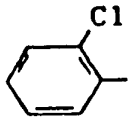
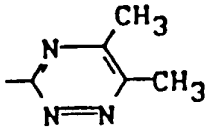
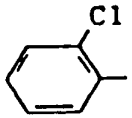
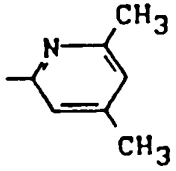
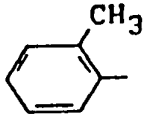
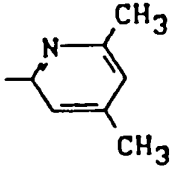
Example No.	R^3	R^4	R^5	X	M
II-91			$-CH_3$	S	H
II-92			$-CH_3$	S	H
II-93			$-CH_3$	S	H
II-94			$-CH_3$	S	H
II-95			$-CH_3$	S	H

Table 2 - Continuation

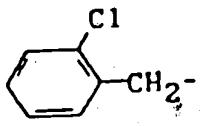
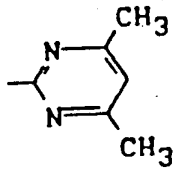
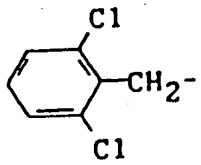
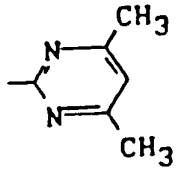
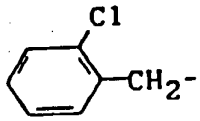
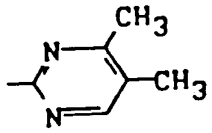
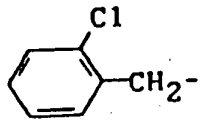
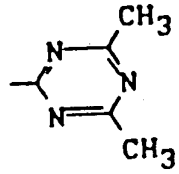
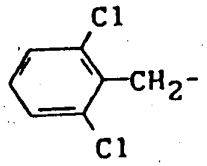
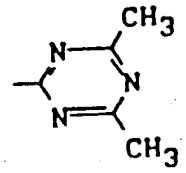
Example No.	R^3	R^4	R^5	X	M
II-96			$-CH_3$	S	H
II-97			$-CH_3$	S	H
II-98			$-CH_3$	S	H
II-99			$-CH_3$	S	H
II-100			$-CH_3$	S	H

Table 2 - Continuation

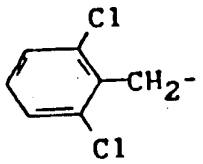
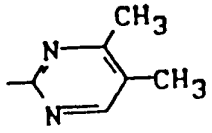
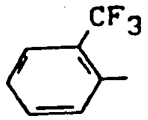
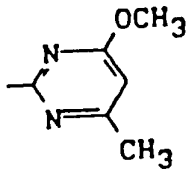
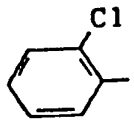
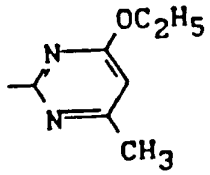
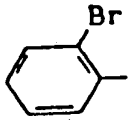
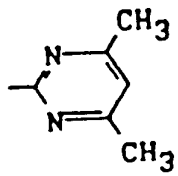
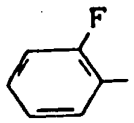
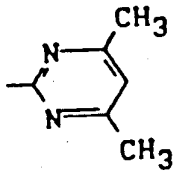
Example No.	R^3	R^4	R^5	X	M
II-101			$-CH_3$	S	H
II-102			$-CH_3$	S	H
II-103			$-C_2H_5$	S	H
II-104			$-C_2H_5$	S	H
II-105			$-CH_3$	S	H

Table 2 - Continuation

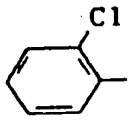
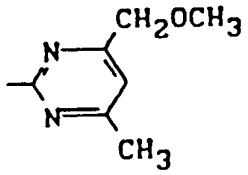
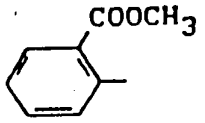
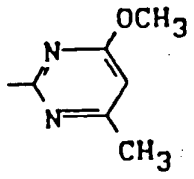
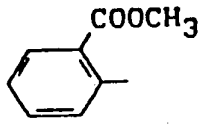
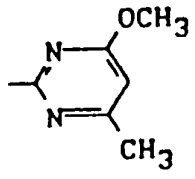
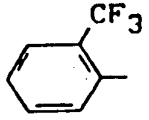
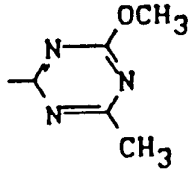
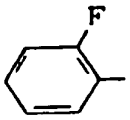
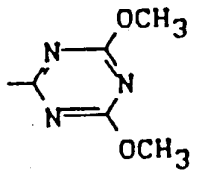
Example No.	R^3	R^4	R^5	X	M
II-106			$-CH_3$	S	H
II-107			$-CH_3$	S	H
II-108			$-CH_2CH=CH_2$	S	H
II-109			$-CH_3$	S	H
II-110			$-C_2H_5$	S	H

Table 2 - Continuation

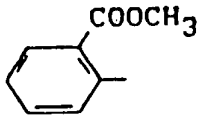
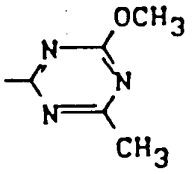
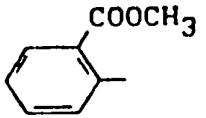
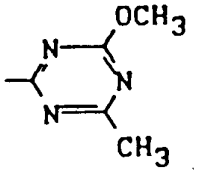
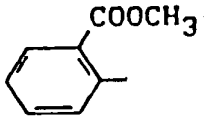
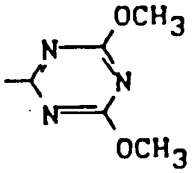
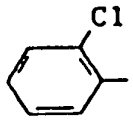
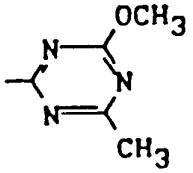
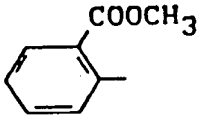
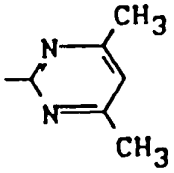
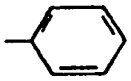
Example No.	R^3	R^4	R^5	X	M
II-111			$-CH_3$	S	H
II-112			$-CH_2COOC_2H_5$	S	H
II-113			$-CH_3$	S	H
II-114			$-CH_2CH_2OCH_3$	S	H
II-115				O	H

Table 2 - Continuation

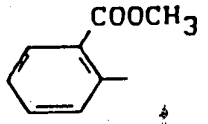
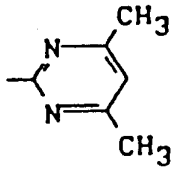
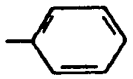
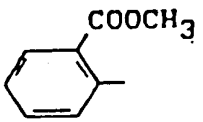
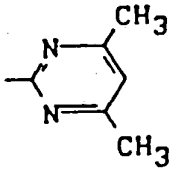
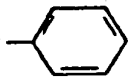
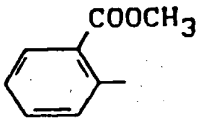
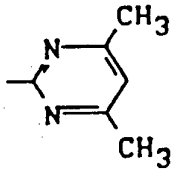
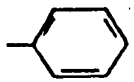
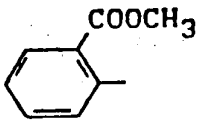
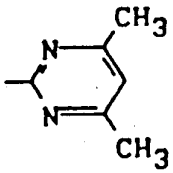
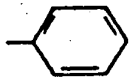
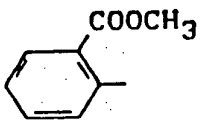
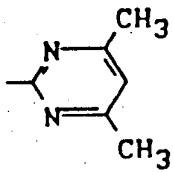
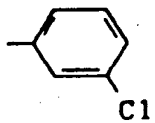
Example No.	R^3	R^4	R^5	X	M
II-116				O	H_2SO_4
II-117				O	Na^+
II-118				O	K^+
II-119				O	$1/2\ Ca^{++}$
II-120				O	H

Table 2 - Continuation

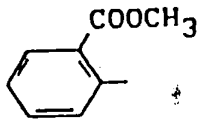
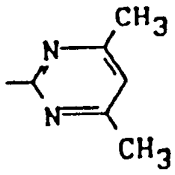
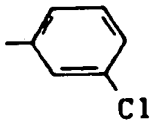
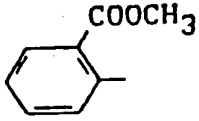
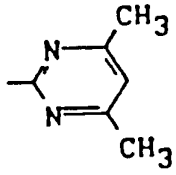
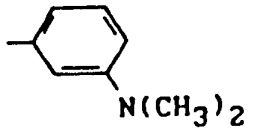
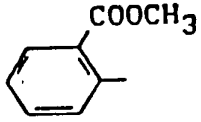
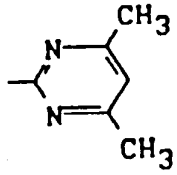
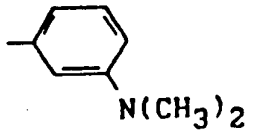
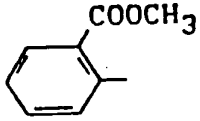
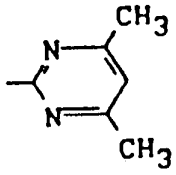
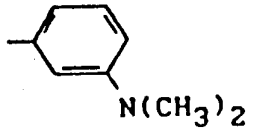
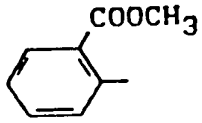
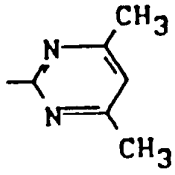
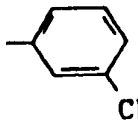
Example No.	R^3	R^4	R^5	X	M
II-121				O	Na^+
II-122				O	H
II-123				O	2 CH_3SO_3H
II-124				O	Na^+
II-125				O	Na^+

Table 2 - Continuation

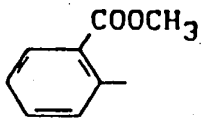
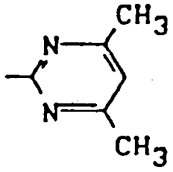
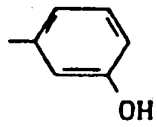
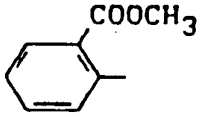
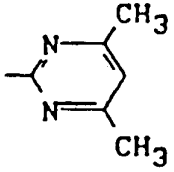
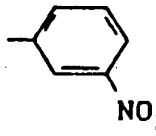
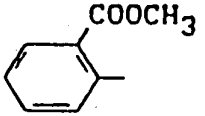
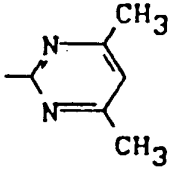
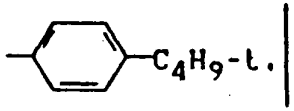
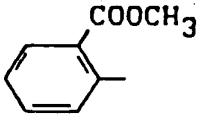
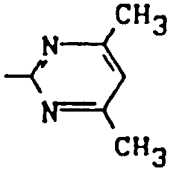
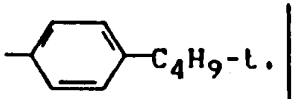
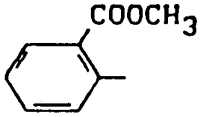
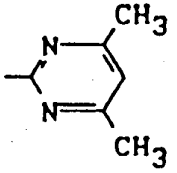
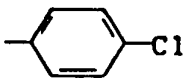
Example No.	R^3	R^4	R^5	X	M
II-126				O	Na^+
II-127				O	Na^+
II-128				O	H
II-129				O	Na^+
II-130				O	H

Table 2 - Continuation

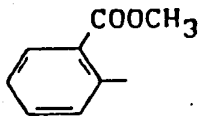
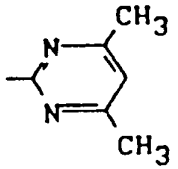
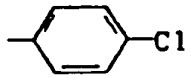
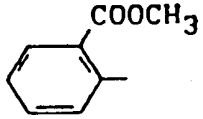
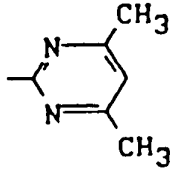
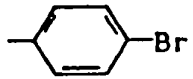
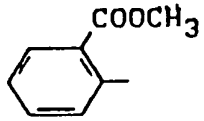
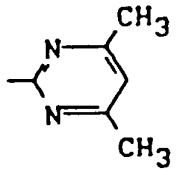
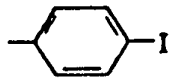
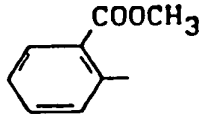
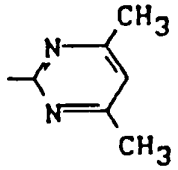
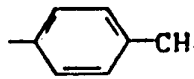
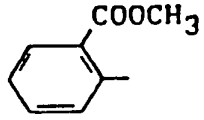
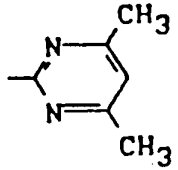
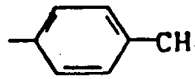
Example No.	R^3	R^4	R^5	X	M
II-131				O	Na^+
II-132				O	H
II-133				O	H
II-134				O	H
II-135				O	Na^+

Table 2 - Continuation

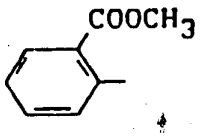
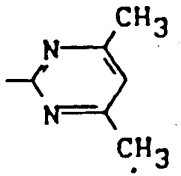
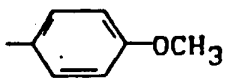
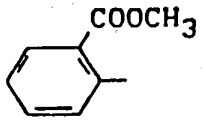
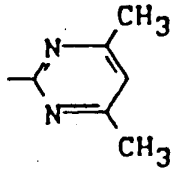
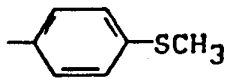
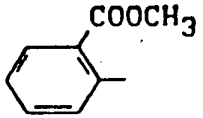
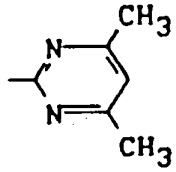
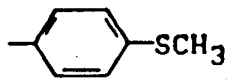
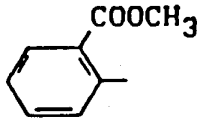
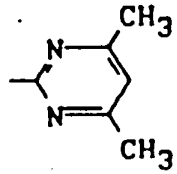
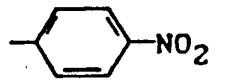
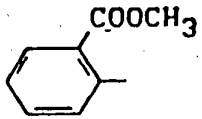
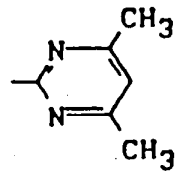
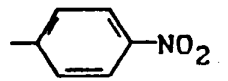
Example No.	R^3	R^4	R^5	X	M
II-136				O	K^+
II-137				O	H
II-138				O	Na^+
II-139				O	H
II-140				O	Na^+

Table 2 - Continuation

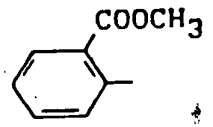
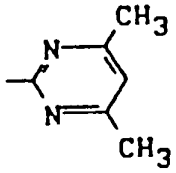
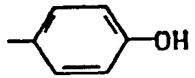
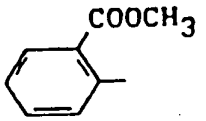
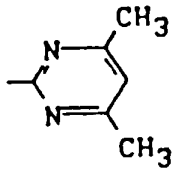
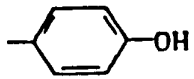
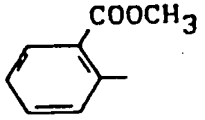
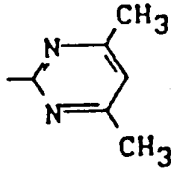
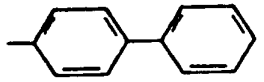
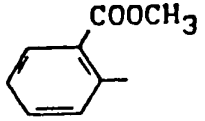
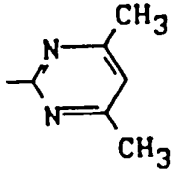
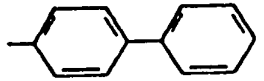
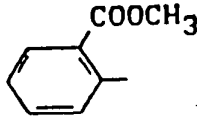
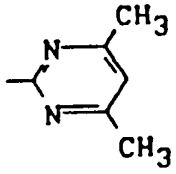
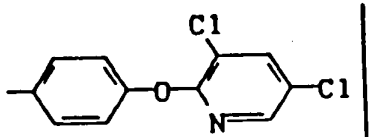
Example No.	R^3	R^4	R^5	X	M
II-141				O	H
II-142				O	Na^+
II-143				O	H
II-144				O	Na^+
II-145				O	Na^+

Table 2 - Continuation

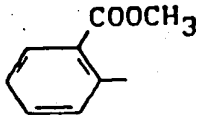
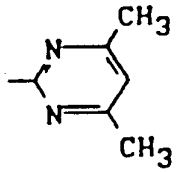
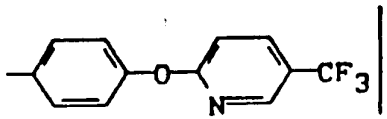
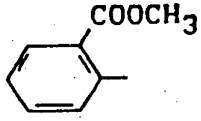
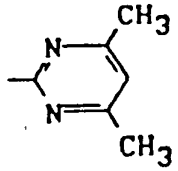
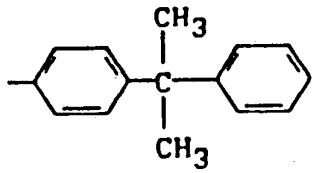
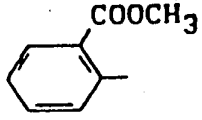
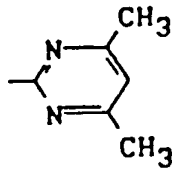
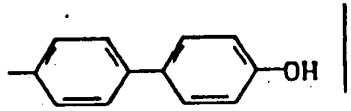
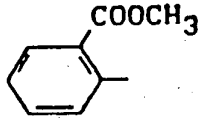
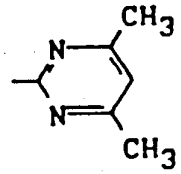
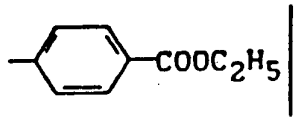
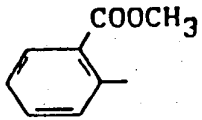
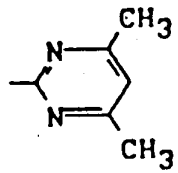
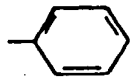
Example No.	R^3	R^4	R^5	X	M
II-146				O	Na^+
II-147				O	Na^+
II-148				O	Na^+
II-149				O	Na^+
II-150				O	Na^+

Table 2 - Continuation

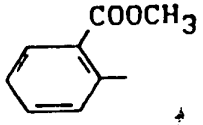
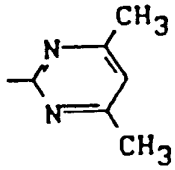
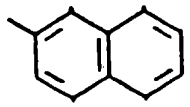
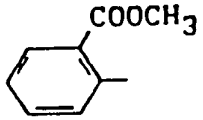
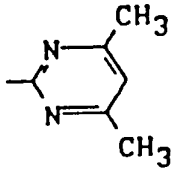
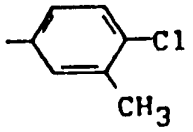
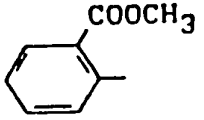
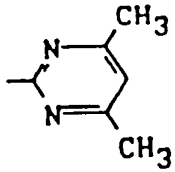
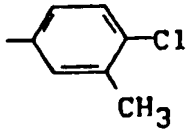
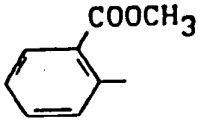
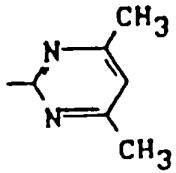
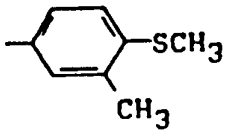
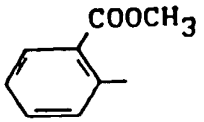
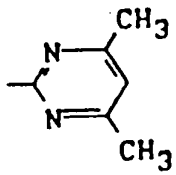
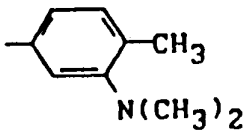
Example No.	R^3	R^4	R^5	X	M
II-151				O	H
II-152				O	H
II-153				O	Na^+
II-154				O	Na^+
II-155				O	Na^+

Table 2 - Continuation

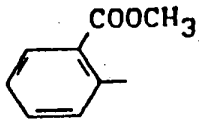
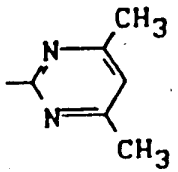
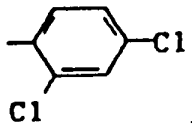
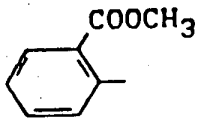
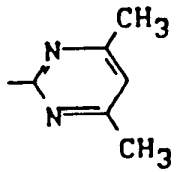
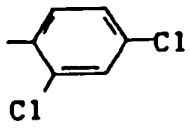
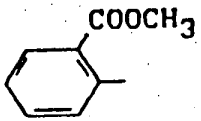
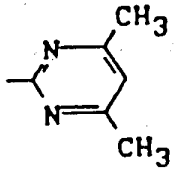
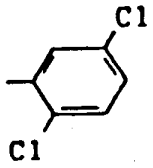
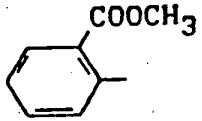
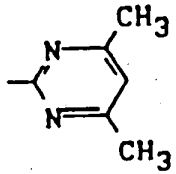
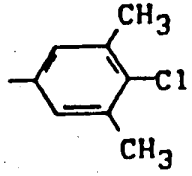
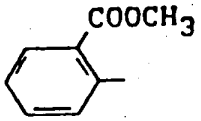
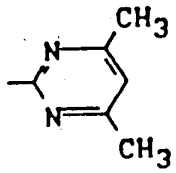
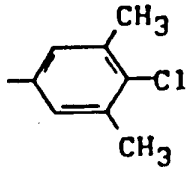
Example No.	R^3	R^4	R^5	X	M
II-156				O	H
II-157				O	Na^+
II-158				O	Na^+
II-159				O	H
II-160				O	Na^+

Table 2 - Continuation

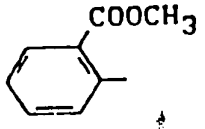
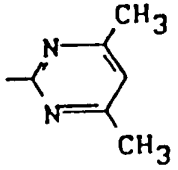
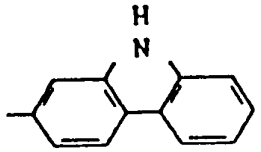
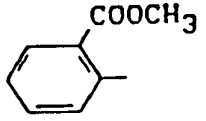
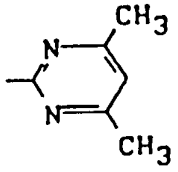
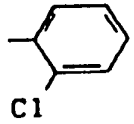
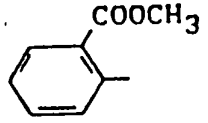
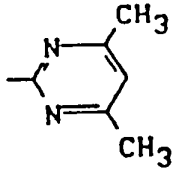
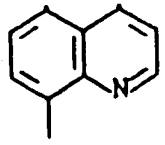
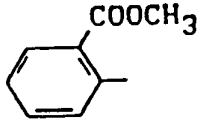
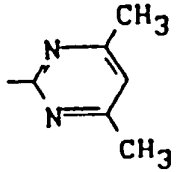
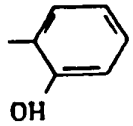
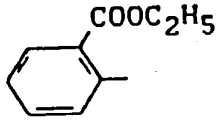
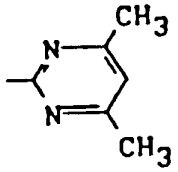
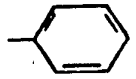
Example No.	R^3	R^4	R^5	X	M
II-161				O	Na^+
II-162				O	Na^+
II-163				O	Na^+
II-164				O	Na^+
II-165				O	H

Table 2 - Continuation

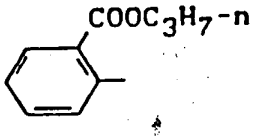
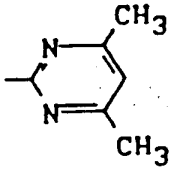
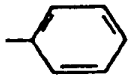
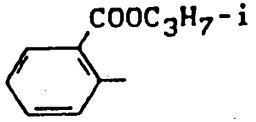
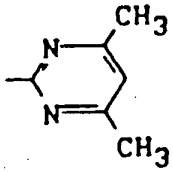
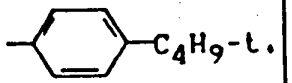
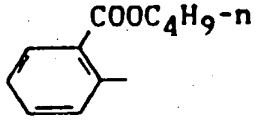
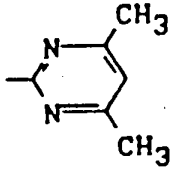
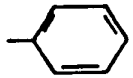
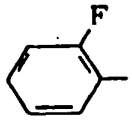
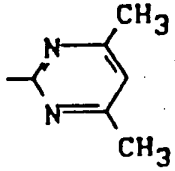
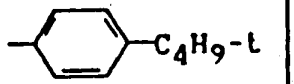
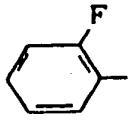
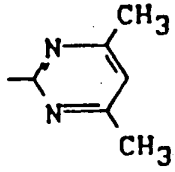
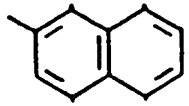
Example No.	R^3	R^4	R^5	X	M
II-166				O	H
II-167				O	H
II-168				O	H
II-169				O	H
II-170				O	H

Table 2 - Continuation

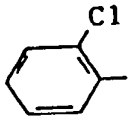
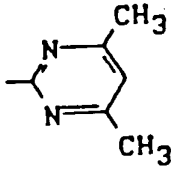
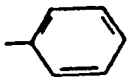
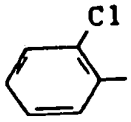
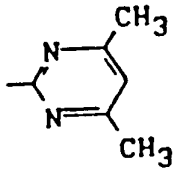
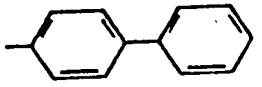
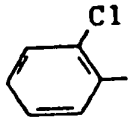
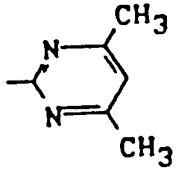
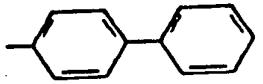
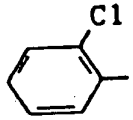
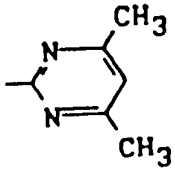
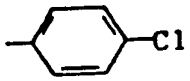
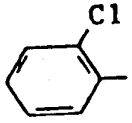
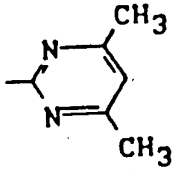
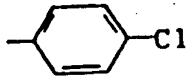
Example No.	R^3	R^4	R^5	X	M
II-171				O	H
II-172				O	H
II-173				O	Na^+
II-174				O	H
II-175				O	Na^+

Table 2 - Continuation

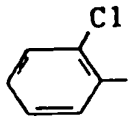
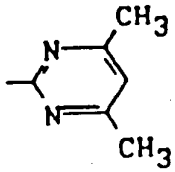
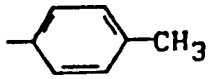
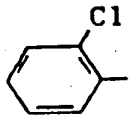
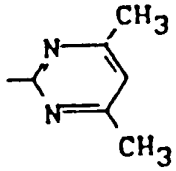
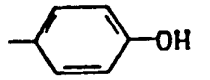
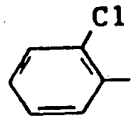
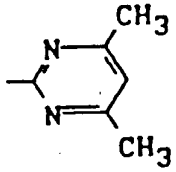
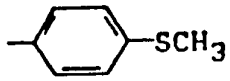
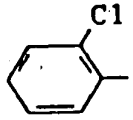
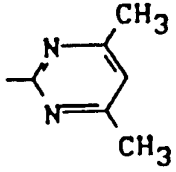
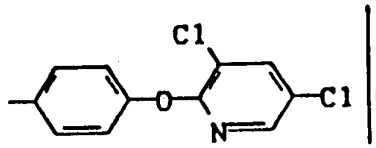
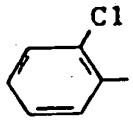
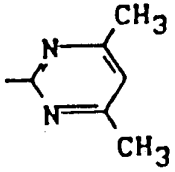
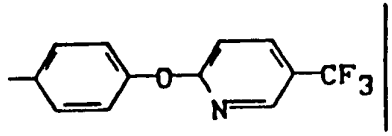
Example No.	R^3	R^4	R^5	X	M
II-176				O	Na^+
II-177				O	Na^+
II-178				O	Na^+
II-179				O	Na^+
II-180				O	Na^+

Table 2 - Continuation

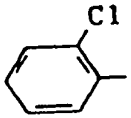
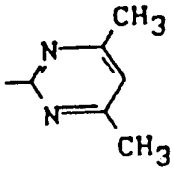
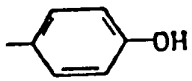
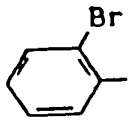
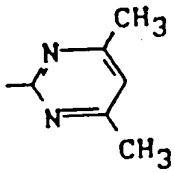
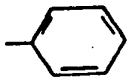
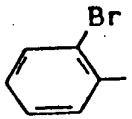
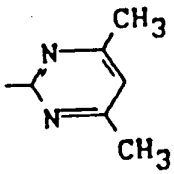
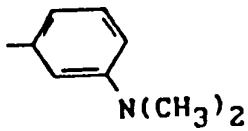
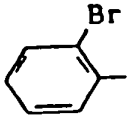
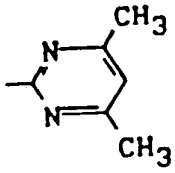
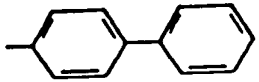
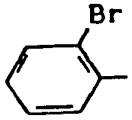
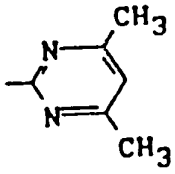
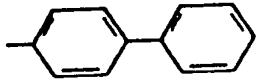
Example No.	R^3	R^4	R^5	X	M
II-181				O	H
II-182				O	H
II-183				O	Na^+
II-184				O	H
II-185				O	Na^+

Table 2 - Continuation

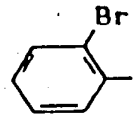
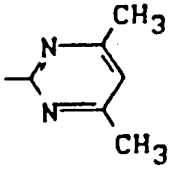
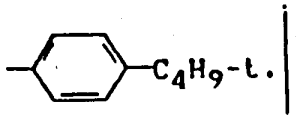
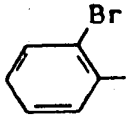
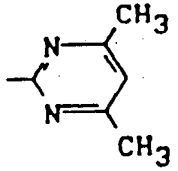
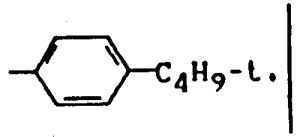
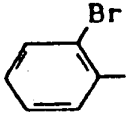
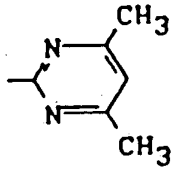
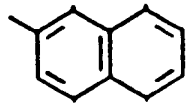
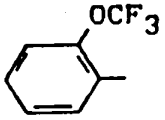
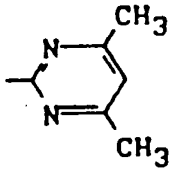
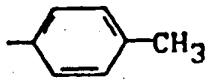
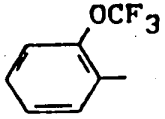
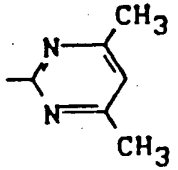
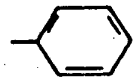
Example No.	R^3	R^4	R^5	X	M
II-186				O	H
II-187				O	K^+
II-188				O	K^+
II-189				O	H
II-190				O	H

Table 2 - Continuation

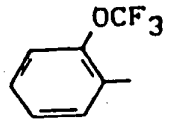
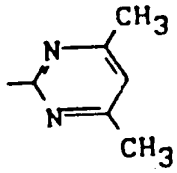
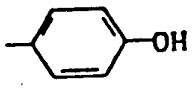
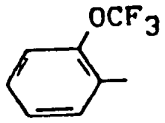
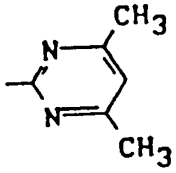
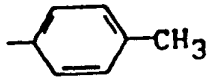
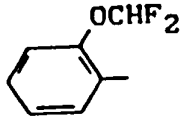
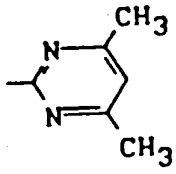
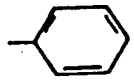
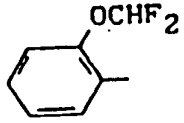
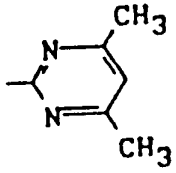
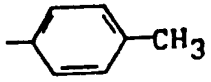
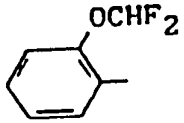
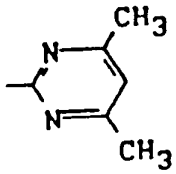
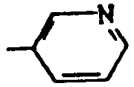
Example No.	R^3	R^4	R^5	X	M
II-191				O	H
II-192				O	Na^+
II-193				O	H
II-194				O	H
II-195				O	H

Table 2 - Continuation

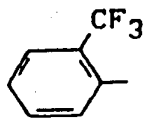
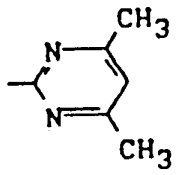
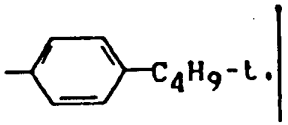
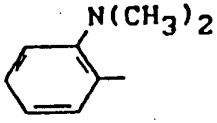
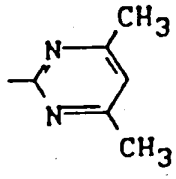
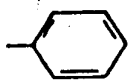
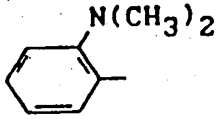
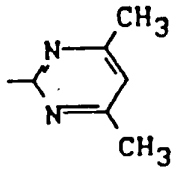
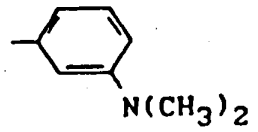
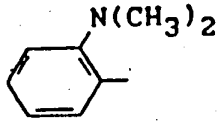
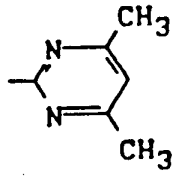
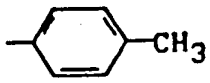
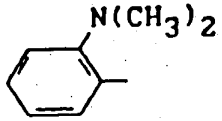
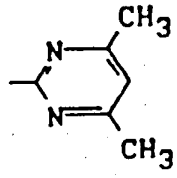
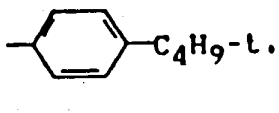
Example No.	R^3	R^4	R^5	X	M
II-196				O	H
II-197				O	H
II-198				O	H
II-199				O	H
II-200				O	H

Table 2 - Continuation

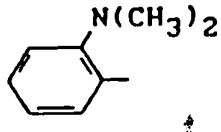
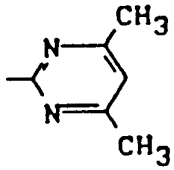
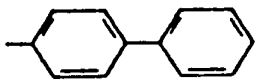
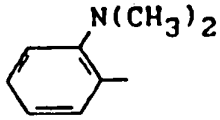
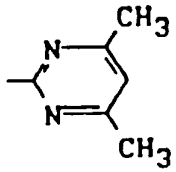
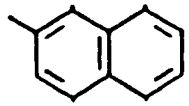
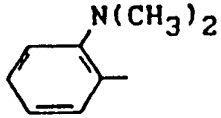
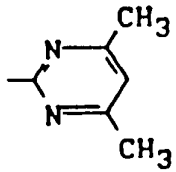
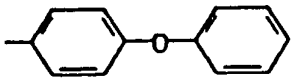
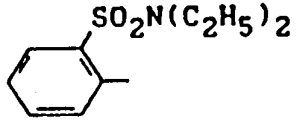
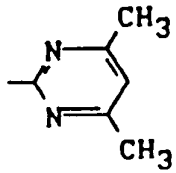
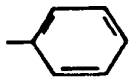
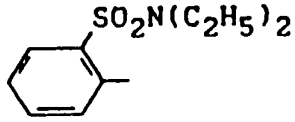
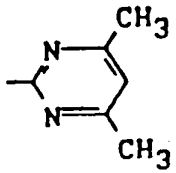
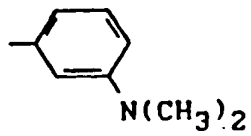
Example No.	R^3	R^4	R^5	X	M
II-201				O	H
II-202				O	Na^+
II-203				O	H
II-204				O	H
II-205				O	H

Table 2 - Continuation

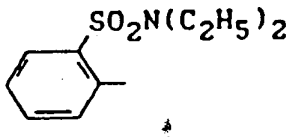
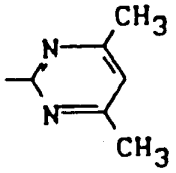
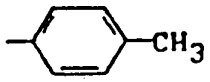
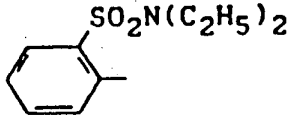
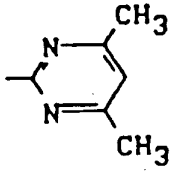
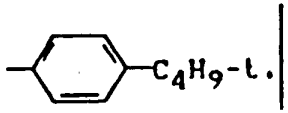
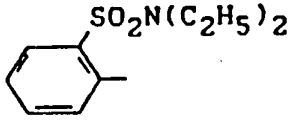
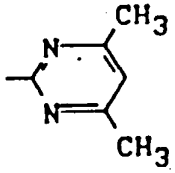
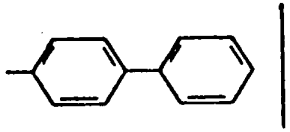
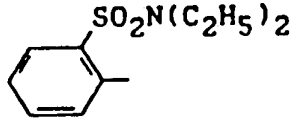
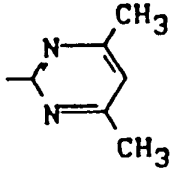
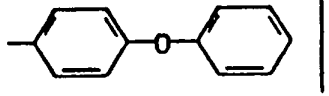
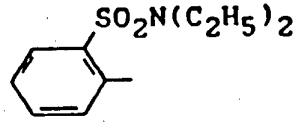
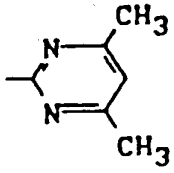
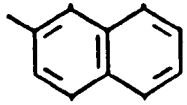
Example No.	R^3	R^4	R^5	X	M
II-206				O	H
II-207				O	H
II-208				O	H
II-209				O	H
II-210				O	H

Table 2 - Continuation

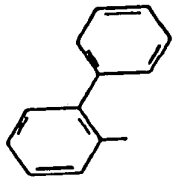
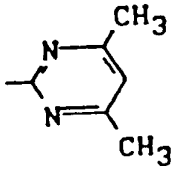
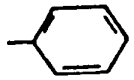
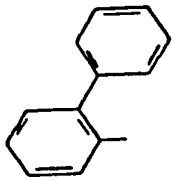
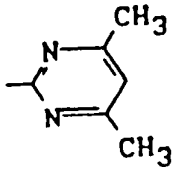
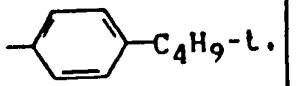
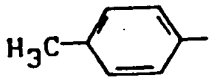
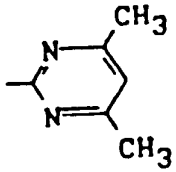
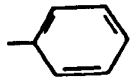
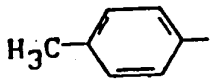
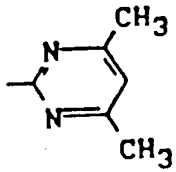
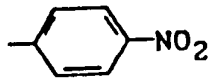
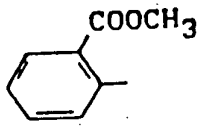
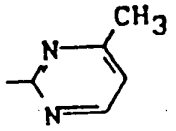
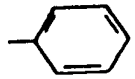
Example No.	R^3	R^4	R^5	X	M
II-211				O	H
II-212				O	H
II-213				O	H
II-214				O	H
II-215				O	H

Table 2 - Continuation

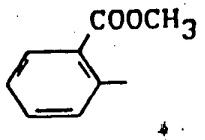
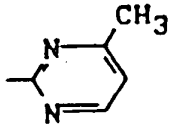
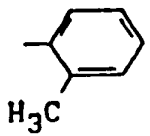
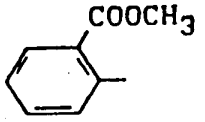
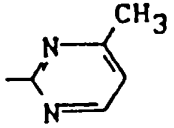
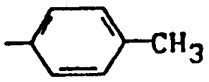
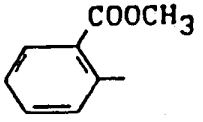
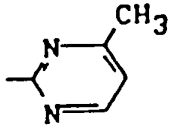
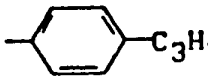
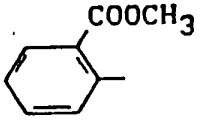
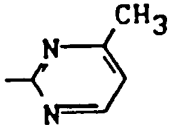
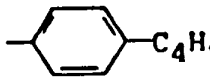
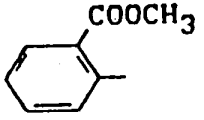
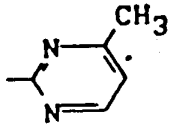
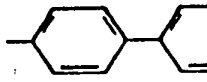
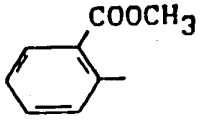
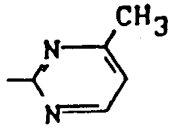
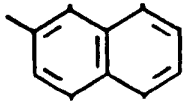
Example No.	R^3	R^4	R^5	X	M
II-216				O	H
II-217				O	H
II-218				O	H
II-219				O	H
II-220				O	H
II-221				O	H

Table 2 - Continuation

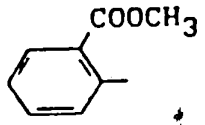
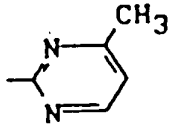
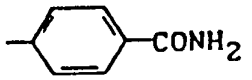
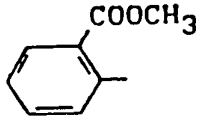
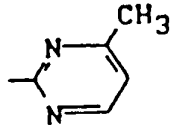
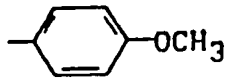
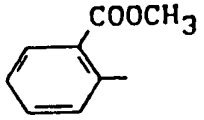
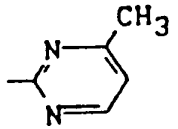
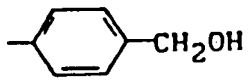
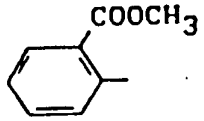
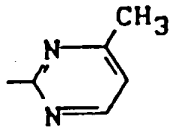
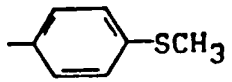
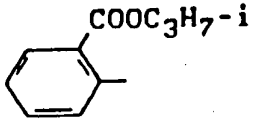
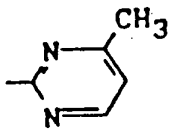
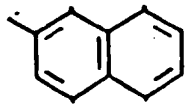
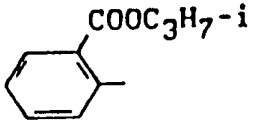
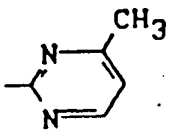
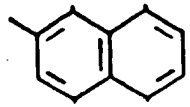
Example No.	R^3	R^4	R^5	X	M
II-222				O	Na^+
II-223				O	Na^+
II-224				O	Na^+
II-225				O	Na^+
II-226				O	H
II-227				O	Na^+

Table 2 - Continuation

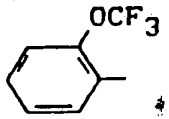
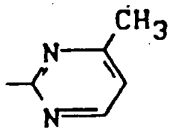
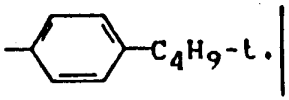
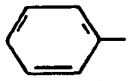
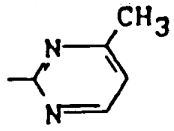
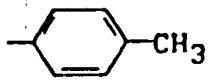
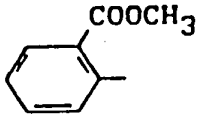
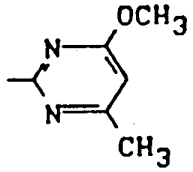
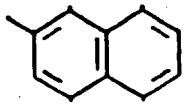
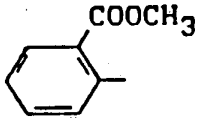
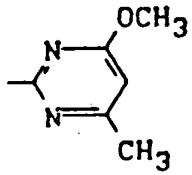
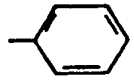
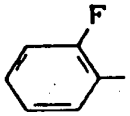
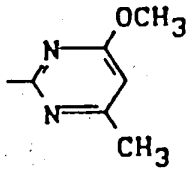
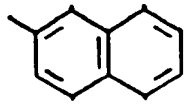
Example No.	R^3	R^4	R^5	X	M
II-228				O	H
II-229				O	H
II-230				O	H
II-231				O	H
II-232				O	H

Table 2 - Continuation

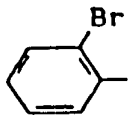
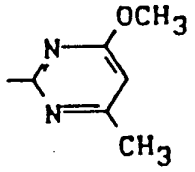
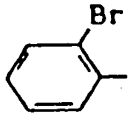
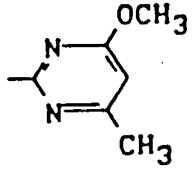
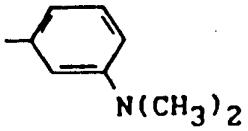
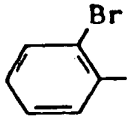
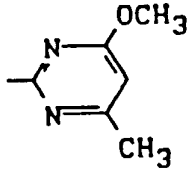
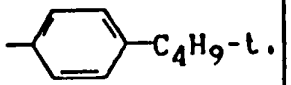
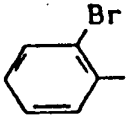
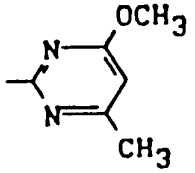
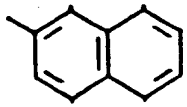
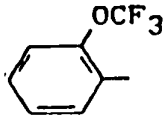
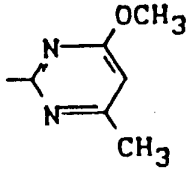
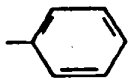
Example No.	R^3	R^4	R^5	X	M
II-233				O	H
II-234				O	H
II-235				O	H
II-236				O	H
II-237				O	H

Table 2 - Continuation

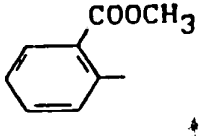
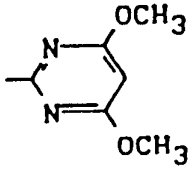
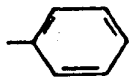
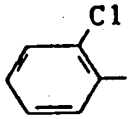
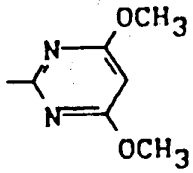
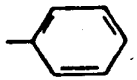
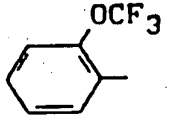
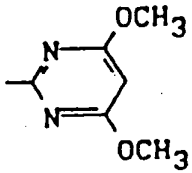
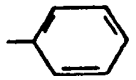
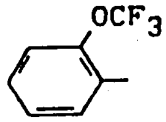
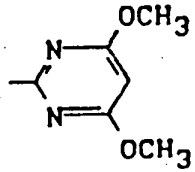
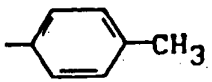
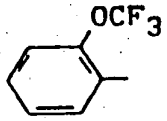
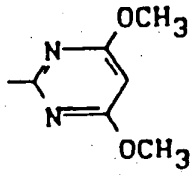
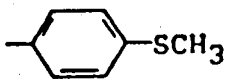
Example No.	R^3	R^4	R^5	X	M
II-238				O	H
II-239				O	H
II-240				O	H
II-241				O	H
II-242				O	H

Table 2 - Continuation

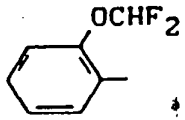
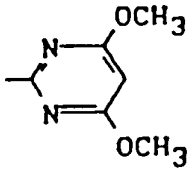
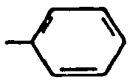
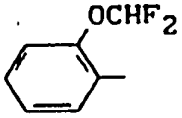
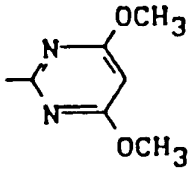
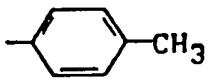
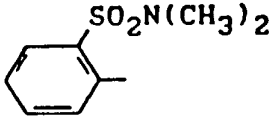
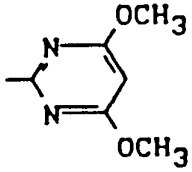
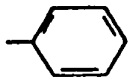
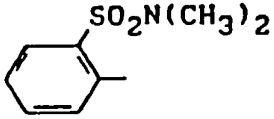
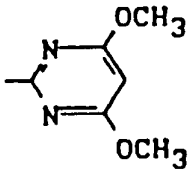
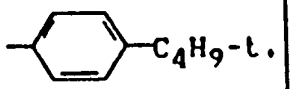
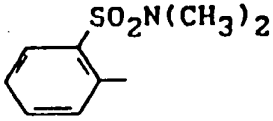
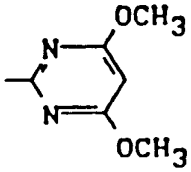
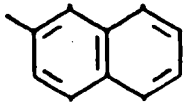
Example No.	R^3	R^4	R^5	X	M
II-243				O	H
II-244				O	H
II-245				O	H
II-246				O	H
II-247				O	H

Table 2 - Continuation

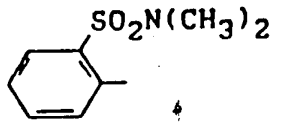
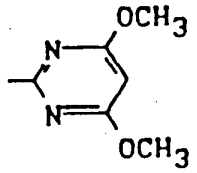
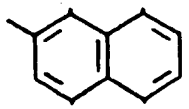
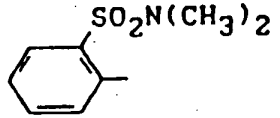
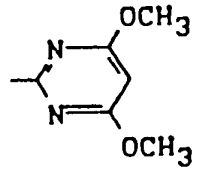
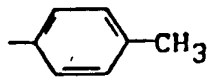
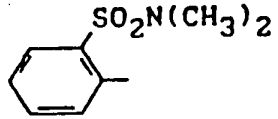
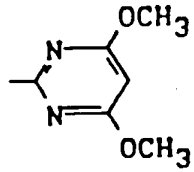
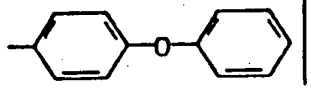
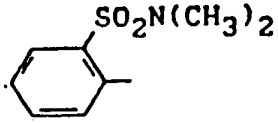
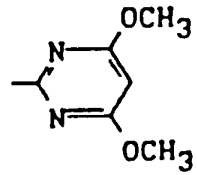
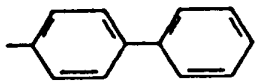
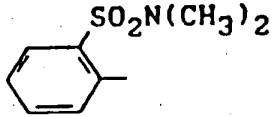
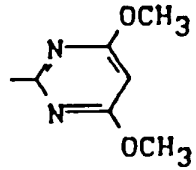
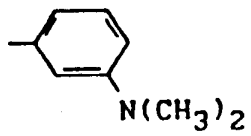
Example No.	R^3	R^4	R^5	X	M
II-248				O	Na^+
II-249				O	H
II-250				O	H
II-251				O	H
II-252				O	H

Table 2 - Continuation

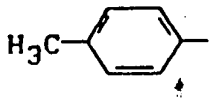
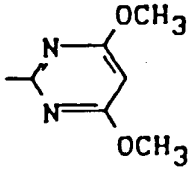
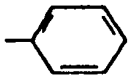
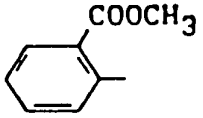
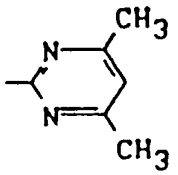
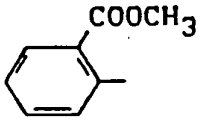
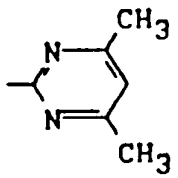
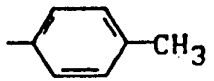
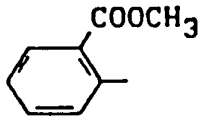
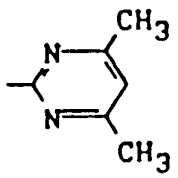
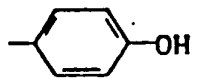
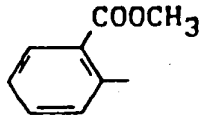
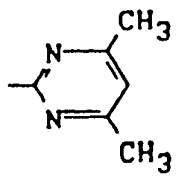
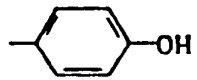
Example No.	R^3	R^4	R^5	X	M
II-253				O	H
II-254				S	H
II-255				S	H
II-256				S	H
II-257				S	Na^+

Table 2 - Continuation

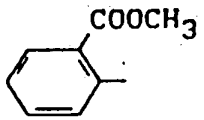
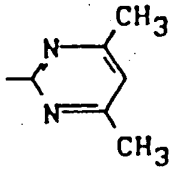
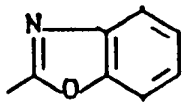
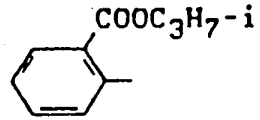
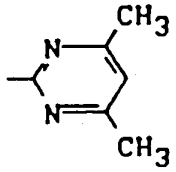
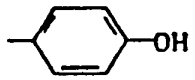
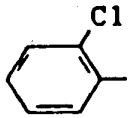
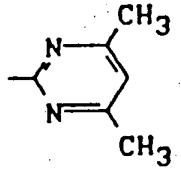
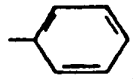
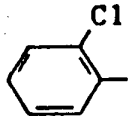
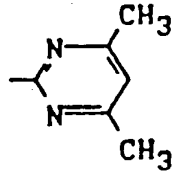
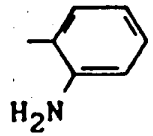
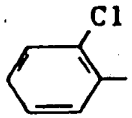
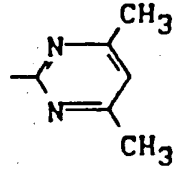
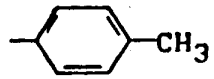
Example No.	R^3	R^4	R^5	X	M
II-258				S	H
II-259				S	H
II-260				S	H
II-261				S	H
II-262				S	H

Table 2 - Continuation

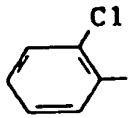
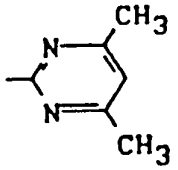
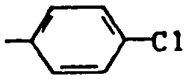
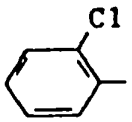
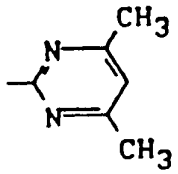
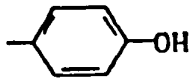
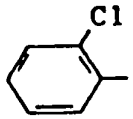
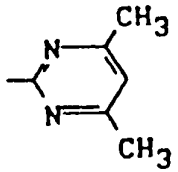
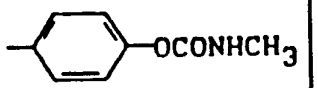
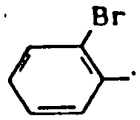
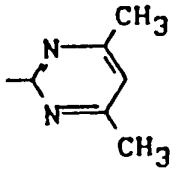
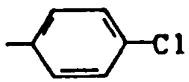
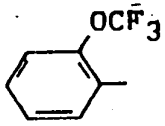
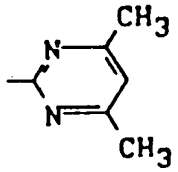
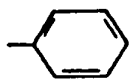
Example No.	R^3	R^4	R^5	X	M
II-263				S	H
II-264				S	H
II-265				S	H
II-266				S	H
II-267				S	H

Table 2 - Continuation

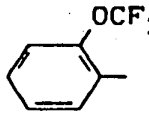
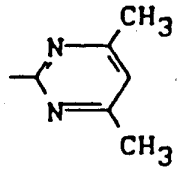
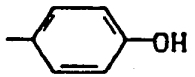
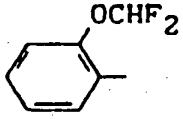
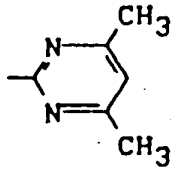
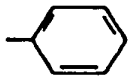
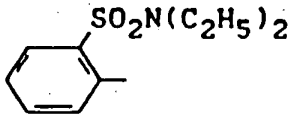
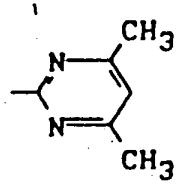
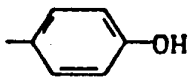
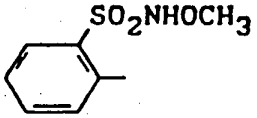
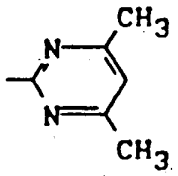
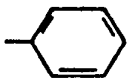
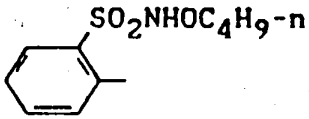
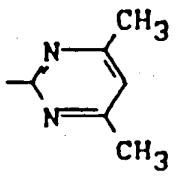
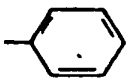
Example No.	R^3	R^4	R^5	X	M
II-268				S	H
II-269				S	H
II-270				S	H
II-271				S	H
II-272				S	H

Table 2 - Continuation

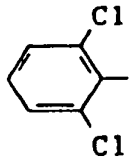
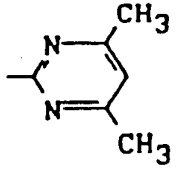
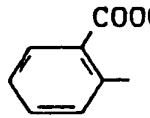
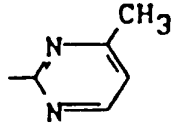
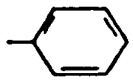
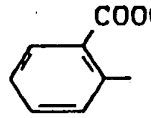
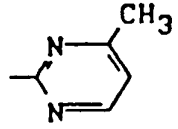
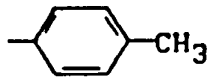
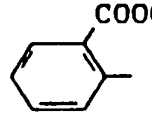
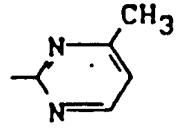
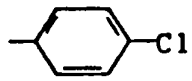
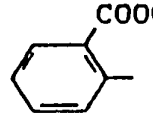
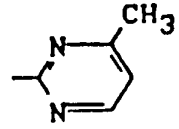
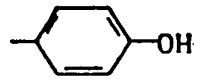
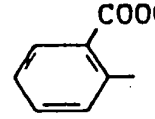
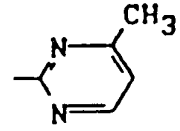
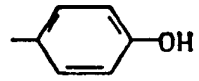
Example No.	R^3	R^4	R^5	X	M
II-273				S	H
II-274				S	H
II-275				S	H
II-276				S	H
II-277				S	H
II-278				S	H

Table 2 - Continuation

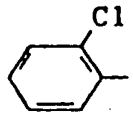
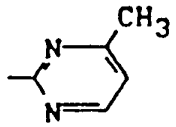
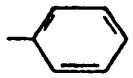
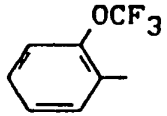
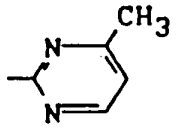
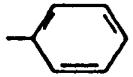
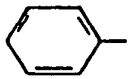
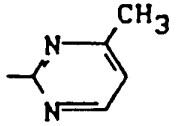
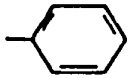
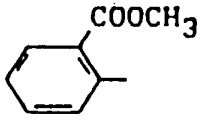
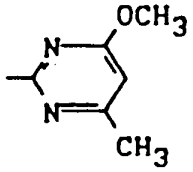
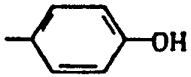
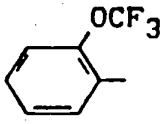
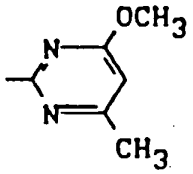
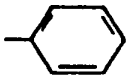
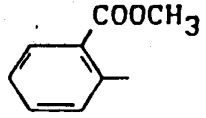
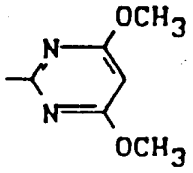
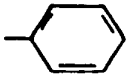
Example No.	R^3	R^4	R^5	X	M
II-279				S	Na^+
II-280				S	H
II-281				S	H
II-282				S	H
II-283				S	H
II-284				S	H

Table 2 - Continuation

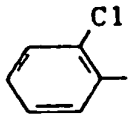
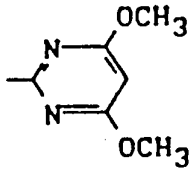
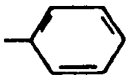
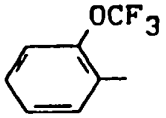
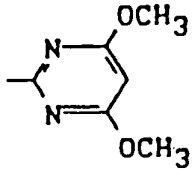
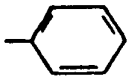
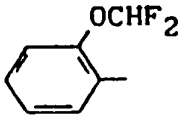
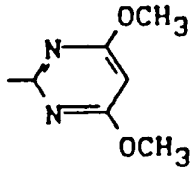
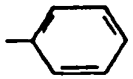
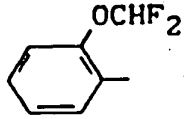
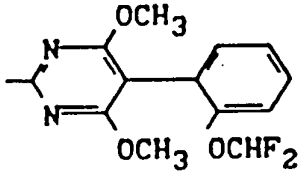
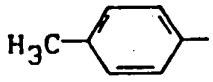
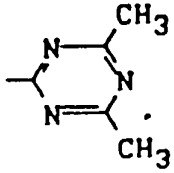
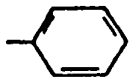
Example No.	R^3	R^4	R^5	X	M
II-285				S	H
II-286				S	H
II-287				S	H
II-288				S	H
II-289				S	H

Table 2 - Continuation

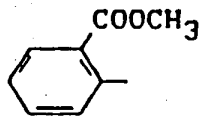
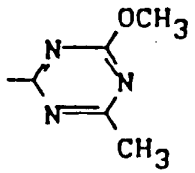
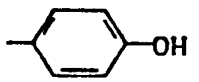
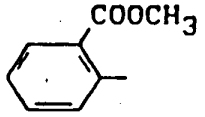
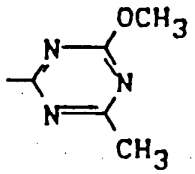
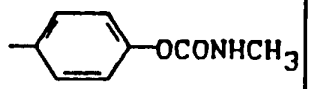
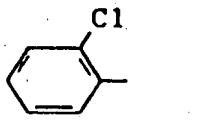
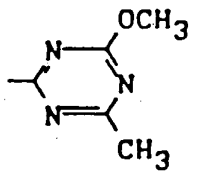
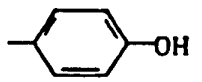
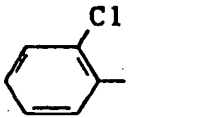
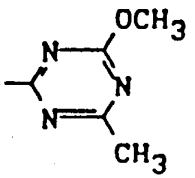
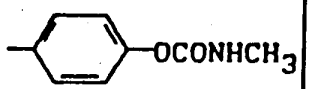
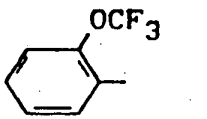
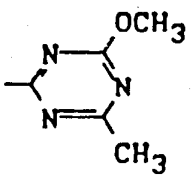
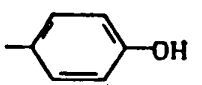
Example No.	R^3	R^4	R^5	X	M
II-290				S	H
II-291				S	H
II-292				S	H
II-293				S	H
II-294				S	H

Table 2 - Continuation

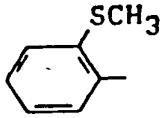
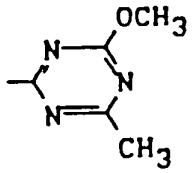
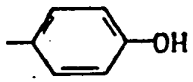
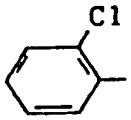
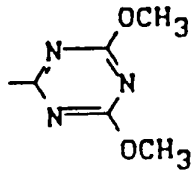
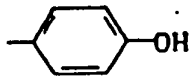
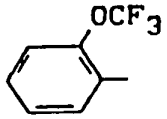
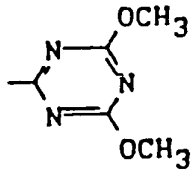
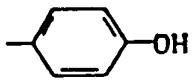
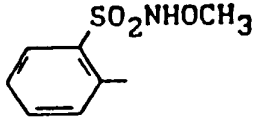
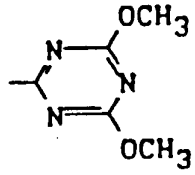
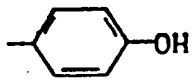
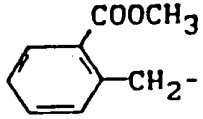
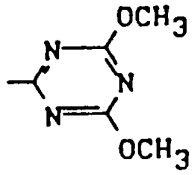
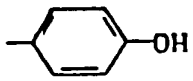
Example No.	R^3	R^4	R^5	X	M
II-295				S	H
II-296				S	H
II-297				S	H
II-298				S	H
II-299				S	H

Table 2 - Continuation

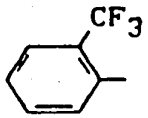
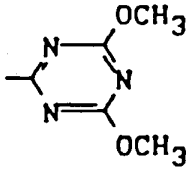
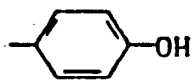
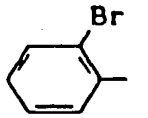
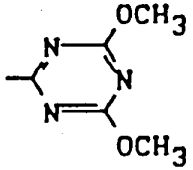
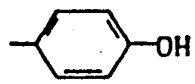
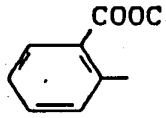
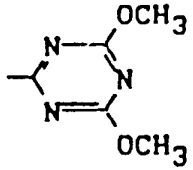
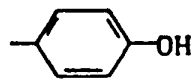
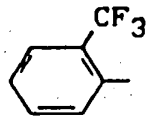
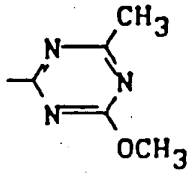
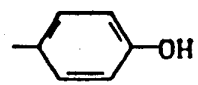
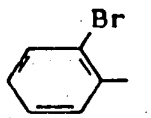
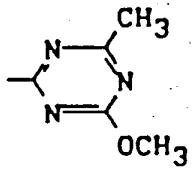
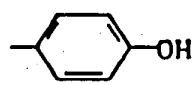
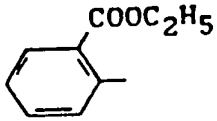
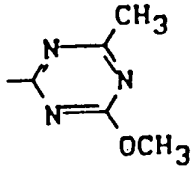
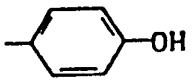
Example No.	R^3	R^4	R^5	X	M
II-300				S	H
II-301				S	H
II-302				S	H
II-303				S	H
II-304				S	H

Table 2 - Continuation

Example No.	R^3	R^4	R^5	X	M
II-305				S	H

The sulphonyliso(thio)urea derivatives of the formula (II) which can be used according to the invention are known and/or can be prepared by methods which are known per se (compare, for example, Swiss Patent Specification 646,957, European Patent A-5,986, European Patent A-24,215, European Patent A-173,311, European Patent A-173,316, European Patent A-173,321 and European Patent A-173,957).

The amides of the formula (I) which can be used according to the invention as antidotes are particularly suitable for improving the tolerance of herbicidally active sulphonyliso(thio)urea derivatives of the formula (II) in important crop plants, such as maize, soyabean, cotton, sugar beet, cereals, rice and sugar cane, in particular maize.

The active compound combinations according to the invention exhibit a very good action against broad-leaved weeds and gramineous weeds in numerous crops of useful plants. They can therefore be used for selectively combating weeds in numerous crops of useful plants. By weeds, in the broadest sense, there are to be understood all plants which grow in locations where they are undesired.

The active compound combinations according to the invention can be used, for example, in connection with the following plants:

Dicotyledon weeds of the genera: Sinapis, Lepidium, Galium, Stellaria, Matricaria, Anthemis, Galinsoga, Chenopodium, Urtica, Senecio, Amaranthus, Portulaca, Xanthium, Convolvulus, Ipomoea, Polygonum, Sesbania, Ambrosia, Cirsium, Carduus, Sonchus, Solanum, Rorippa, Rotala, Lindernia, Lamium, Veronica, Abutilon, Emex, Datura, Viola, Galeopsis, Papaver and Centaurea.

Dicotyledon cultures of the genera: Gossypium, Glycine, Beta, Daucus, Phaseolus, Pisum, Solanum, Linum, Ipomoea, Vicia, Nicotiana, Lycopersicon, Arachis, Brassica, Lactuca, Cucumis and Cucurbita.

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Monocotyledon weeds of the genera: Echinochloa, Setaria, Panicum, Digitaria, Phleum, Poa, Festuca, Eleusine, Brachiaria, Lolium, Bromus, Avena, Cyperus, Sorghum, Agropyron, Cynodon, Monochoria, Fimbristylis, Sagittaria, Eleocharis, Scirpus, Paspalum, Ischaemum, Sphenoclea, Dactyloctenium, Agrostis, Alopecurus and Apera.

Monocotyledon cultures of the genera: Oryza, Zea, Triticum, Hordeum, Avena, Secale, Sorghum, Panicum, Saccharum, Ananas, Asparagus and Allium.

However, the use of the active compound combinations according to the invention is in no way restricted to these genera, but also extends in the same manner to other plants.

The active compound combinations according to the invention are particularly suitable for selectively combating weeds in maize.

The selective herbicidal activity of the active compound combinations according to the invention is particularly pronounced if the herbicidal active compound and antidote are present in certain ratios. However, the weight ratios of herbicidal active compound to antidote in the active compound combinations according to the invention can vary within relatively wide limits. In general, 0.01 to 100 parts by weight, preferably 0.1 to 20 parts by weight, of an antidote of the formula (I) are present per part by weight of herbicidal active compound of the formula (II).

The antidotes of the formula (I) which can be used according to the invention or the active compound combinations according to the invention of an antidote of the formula (I) and a herbicidal active compound of the formula (II) can be converted to the customary formulations, such as solutions, emulsions, wettable powders, suspensions, powders, dusting agents, pastes, soluble powders, granules, suspension-emulsion concentrates, natural and synthetic materials impregnated with active compound, and very fine capsules in polymeric materials.

These formulations are produced in known manner, for example by mixing the active compounds with extenders, that is liquid solvents and/or solid carriers, optionally with the use of surface-active agents, that is emulsifying agents and/or dispersing agents and/or foam-forming agents.

In the case of the use of water as an extender, organic solvents can, for example, also be used as auxiliary solvents. As liquid solvents, there are suitable in the main: aromatics, such as xylene, toluene or alkyl naphthalenes, chlorinated aromatics and chlorinated aliphatic hydrocarbons, such as chlorobenzenes, chloroethylenes or methylene chloride, aliphatic hydrocarbons, such as cyclohexane or paraffins, for example petroleum fractions, mineral and vegetable oils, alcohols, such as butanol or glycol as well as their ethers and esters, ketones, such as acetone, methyl ethyl ketone, methyl isobutyl ketone or cyclohexanone, strongly polar solvents, such as dimethylformamide and dimethylsulphoxide, as well as water.

As solid carriers there are suitable: for example ammonium salts and ground natural minerals, such as kaolins, clays, talc, chalk, quartz, attapulgite, montmorillonite or diatomaceous earth, and ground synthetic minerals, such as highly disperse silicic acid, alumina and silicates, as solid carriers for granules there are suitable: for example crushed and fractionated natural rocks such as calcite, marble, pumice, sepiolite and dolomite, as well as synthetic granules of inorganic and organic meals, and granules of organic material such as sawdust, coconut shells, maize cobs and tobacco stalks; as emulsifying and/or foam-forming agents there are suitable: for example non-ionic and anionic emulsifiers, such as polyoxyethylene-fatty acid esters, polyoxyethylene-fatty alcohol ethers, for example alkylaryl polyglycol ethers, alkylsulphonates, alkylsulphates, arylsulphonates as well

as albumin hydrolysation products; as dispersing agents there are suitable: for example lignin-sulphite waste liquors and methylcellulose.

Adhesives such as carboxymethylcellulose and natural and synthetic polymers in the form of powders, granules or latices, such as gum arabic, polyvinyl alcohol and polyvinyl acetate, as well as natural phospholipids, such as cephalins and lecithins, and synthetic phospholipids, can be used in the formulations. Further additives can be mineral and vegetable oils.

It is possible to use colorants such as inorganic pigments, for example iron oxide, titanium oxide and Prussian Blue, and organic dyestuffs, such as alizarin dyestuffs, azo dyestuffs and metal phthalocyanine dyestuffs, and trace nutrients such as salts of iron, manganese, boron, copper, cobalt, molybdenum and zinc.

The formulations in general contain between 0.1 and 95 per cent by weight of an antidote which can be used according to the invention or of an active compound combination according to the invention of antidote and herbicidal active compound, and they preferably contain between 0.5 and 90 per cent by weight.

The antidotes which can be used according to the invention or the active compound combinations according to the invention, as such or in their formulations, can also be used, for combating weeds, as a mixture with known herbicides, a finished formulation or tank mix being possible. Mixtures with known active compounds, such as fungicides, insecticides, acaricides, nematicides, bird repellants, growth factors, plant nutrients and agents for improving soil structure is also possible.

The antidotes which can be used according to the invention or the active compound combinations according to the invention can be used as such or in the form of their formulations or in the use forms prepared therefrom by further dilution, such as ready-to-use solutions, suspen-

sions, emulsions, powders and granules. They are used in the customary manner, for example by watering, spraying, atomizing, dusting, scattering, dry dressing, moist dressing, wet dressing, slurry dressing or encrusting.

The antidotes which can be used according to the invention can be applied by the methods customary for such antidotes. Thus, the antidotes which can be used according to the invention can be applied before or after the herbicide or applied together with the herbicide. Furthermore, crop plants can be protected from damage by seed treatment with the antidote before sowing (dressing) if the herbicide is used before or after sowing. Another possible use comprises applying the antidote to the seed furrow during sowing. If the plants are seedlings, these can be treated with the antidote before being transplanted.

The amount of antidote applied is in principle independent of the herbicide and the amount of herbicidal active compound applied. The amounts of antidote applied are in general between 0.02 and 20 kg/ha, preferably between 0.05 and 5 kg/ha, for surface treatment. In the case of seed treatment, the amounts of antidote applied for surface treatment are between 0.2 and 200 g per kilogram of seed, preferably between 0.5 and 50 g per kilogram of seed. The amounts of active compound combinations according to the invention applied can be varied within a certain range. They are in general between 0.001 and 25 kg/ha, preferably between 0.01 and 5 kg/ha.

The amounts of herbicidal active compound applied in general vary between 0.001 and 20 kg/ha, preferably between 0.01 and 2 kg/ha.

Use Examples

Preparation of the active compound solutions required

In each case a stock solution was prepared from the amounts of herbicidal active compound or antidote required for the experiment. For this, technical grade active compounds were dissolved with a few millilitres

(3 - 5) of the solvent mentioned, 1 drop of emulsifier "Tween 20" was added and the mixture was further diluted with water, and formulated active compounds were dispersed directly in water. The active compound solutions for treatment of the test plant seeds in the experiment vessels were then prepared from these stock solutions by further dilution with water and if appropriate by mixing, so that the particular solution contained the desired amount of herbicidal active compound or antidote. The volume of active compound solution applied per unit area in the experiments was kept constant.

Use of the antidote and herbicidal active compounds:

The active compound was applied to the seeds of the test plants by the tank mix method. For this, the experiment vessels filled with soil in which the seeds of the test plants were sown were watered with the amount of antidote to be applied, mixed with the herbicide; vessels which had been treated only with water or herbicide served as control variants.

The experiment vessels were then kept in a greenhouse under controlled conditions (temperature, humidity). After two weeks, the experiments were evaluated in the form of visual rating, the damage to the test plants in comparison with the untreated control plants being evaluated according to a scale from 0 (no damage, like untreated control) to 100 (total damage).

The test compounds, the amounts thereof applied, the test plants and the test results can be seen from the following table:

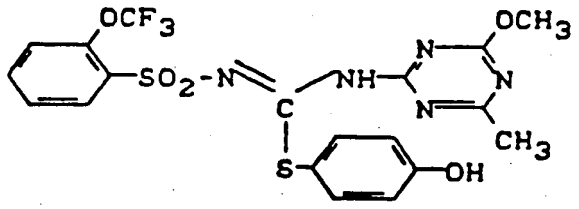
Pre-emergence test / greenhouse

Test compounds / Table 1

The following active compounds were employed as test compounds in the experiments described in the following Tables 1 and 2, the formulations used also being shown:

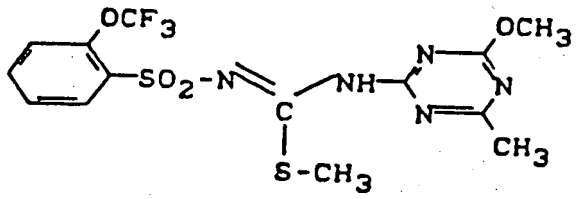
Herbicides:

Herbicide (II-294)



Formulation: Technical grade active compound, solvent dimethylformamide

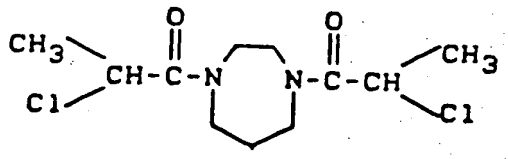
Herbicide (II-79)



Formulation: Technical grade active compound, solvent dimethylformamide

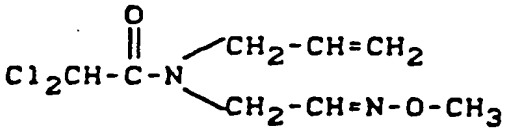
Antidotes:

Antidote (I-475)



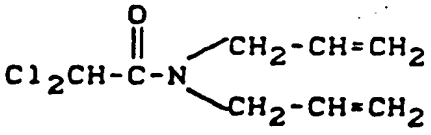
Formulation: 350 EC, that is to say emulsion concentrate with 350 g of antidote per litre

Antidote (I-273)



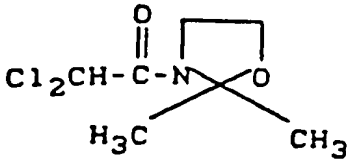
Formulation: 500 EC, that is to say emulsion concentrate with 500 g of antidote per litre

Antidote (I-271)



Formulation: 750 EC, that is to say emulsion concentrate with 750 g of antidote per litre

Antidote (I-369)



Formulation: technical grade active compound, solvent acetone

Table A Testing on maize, use of the antidote by the tank mix method

Test compounds	Amount applied Rating: Damage in %						
Herbicide (II-79)	1000 g / ha 70 %		500 g / ha 50 %		250 g / ha 30 %		
Herbicide (II-79) + Antidote (a), (b), (c) or (d)	1000 g /ha + 1000 g	1000 g /ha + 200 g	500 g /ha + 500 g	500 g /ha + 100 g	250 g /ha + 250 g	250 g /ha + 50 g	0 g /ha + 1000 g
(a) (I-273)	10 %	30 %	10 %	20 %	0	10 %	0
(b) (I-475)	20 %	40 %	10 %	20 %	10 %	20 %	0
(c) (I-271)	10 %	50 %	0	20 %	0	20 %	0
(d) (I-369)	20 %	20 %	0	20 %	0	0	0

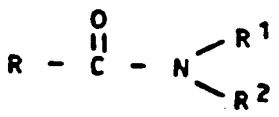
Table A - Continuation

Testing on maize, use of the antidote by the tank mix method

Test compounds	Amount applied Rating: Damage in %						
Herbicide (II-294)	500 g / ha 60 %		250 g / ha 40 %		125 g / ha 20 %		
Herbicide (II-294) + Antidote (a), (b), (c) or (d)	500 g + /ha 500 g	500 g + /ha 100 g	250 g + /ha 250 g	250 g + /ha 50 g	125 g + /ha 125 g	125 g + /ha 25 g	0 g + /ha 1000 g
(a) (I-273)	20 %	30 %	20 %	20 %	10 %	20 %	0
(b) (I-475)	30 %	20 %	20 %	10 %	10 %	20 %	0
(c) (I-271)	30 %	40 %	30 %	30 %	10 %	20 %	0
(d) (I-369)	10 %	10 %	0	0	0	0	0

Patent Claims

1. Use of amides of the formula (I)



(I)

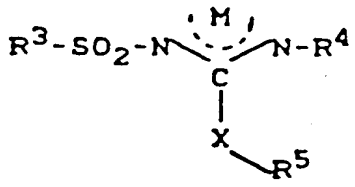
in which

R represents hydrogen or halogen, or represents in each case optionally substituted alkyl, alkenyl, alkinyl, cycloalkyl, cycloalkenyl, bicycloalkyl, bicycloalkenyl, tricycloalkyl, aryl, heteroaryl, alkoxy, alkenyloxy, alkinyloxy, aryloxy, carbamoyl, alkoxycarbonyl or dithiolanyl and

R^1 and R^2 independently of one another in each case represent hydrogen, or represent formyl, or represent chlorosulphonyl, or represent in each case optionally substituted alkyl, alkenyl, alkadienyl, alkinyl, cycloalkyl, cycloalkenyl, alkoxy, alkylthio, alkylcarbonyl, alkoxycarbonyl, phenyl, phenoxy, phenylsulphonyl or heterocyclyl, or represent amino, or represent alkylideneimino, or represent optionally substituted alkylcarbonylamino or di-(alkylcarbonyl)amino, or

R^1 and R^2, together with the nitrogen atom to which they are bonded, represent in each case optionally substituted alkylideneimino, pyrrolidinyl, piperidinyl, piperidonyl, perhydroazepinyl, perhydroazocinyl, dihydropyrazolyl, dihydro- or tetrahydropyridinyl, azabicyclononyl, morpholinyl, perhydro-1,3-oxazinyl, 1,3-oxazolidinyl, 1,4-piperazinyl, perhydro-1,4-diazepinyl, dihydro-, tetrahydro- or perhydroquinolyl- or -isoquinolyl, indolyl or dihydro- or perhydroindolyl,

as an antidote for improving the crop plant tolerance of herbicidally active sulphonyliso(thio)urea derivatives of the formula (II)



(II)

in which

R^3 represents an optionally substituted radical from the series comprising alkyl, aralkyl, aryl and heteroaryl,

R^4 represents a six-membered aromatic heterocyclic radical which is optionally substituted and/or optionally fused and which contains at least one nitrogen atom,

R^5 represents an optionally substituted aliphatic, araliphatic, aromatic or heteroaromatic radical,

X represents oxygen or sulphur and

M represents hydrogen or one equivalent of a metal,

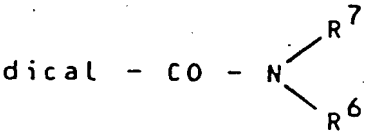
and of adducts of compounds of the formula (II) and strong acids.

2. Method of improving the crop plant tolerance of herbicidally active sulphonyliso(thio)urea derivatives of the formula (II) according to Claim 1, characterized in that amides of the formula (I) according to Claim 1 are allowed to act on the crop plants and/or their environment together with the sulphonyliso(thio)urea derivatives of the formula (II).

3. Agents for selectively combating weeds in crops of useful plants, characterized in that they contain an active compound combination consisting of

- an amide of the formula (I) according to Claim 1 and
- at least one herbicidal sulphonyliso(thio)urea derivative of the formula (II) according to Claim 1.

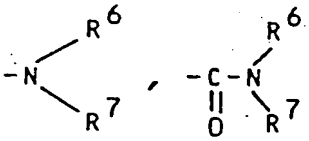
4. Amides as claimed in claim 3 in which

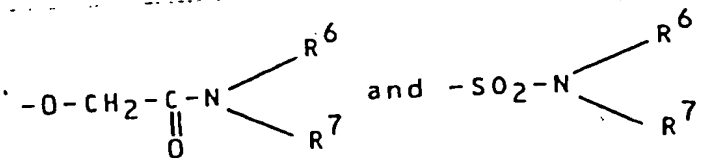
R represents hydrogen, fluorine, chlorine or bromine; or represents the radical 

wherein

R^6 and R^7 are identical or different and each represent hydrogen, or represent in each case straight-chain or branched alkyl, alkenyl, alkinyl or cyanoalkyl with in each case up to 8 carbon atoms; or furthermore

R represents straight-chain or branched alkyl which has 1 to 20 carbon atoms and is optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: hydroxyl, halogen, in particular fluorine, chlorine, bromine or iodine, cyano, cyanato and thiocyanato; in each case straight-chain or branched alkoxy, alkylthio, alkylcarbonyl, alkylcarbonyloxy, alkoxycarbonyl, halogenoalkoxy, halogeno-hydroxy-alkoxy, halogenoalkylcarbonyl, halogenoalkoxycarbonyl, halogenoalkylcarbonyloxy and halogenoalkenylcarbonyloxy with in each case up to 6 carbon atoms and if appropriate up to 9 identical or different halogen atoms;

and also phenyl, phenoxy, phenylthio and thienyl, in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen, lower alkyl and/or lower alkoxy; and furthermore cycloalkyl with 3 to 7 carbon atoms and the radicals 



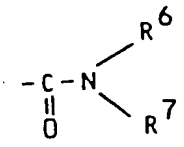
wherein

R^6 and R^7 in each case have the abovementioned meanings; or furthermore

R represents straight-chain or branched alkenyl which has 2 to 8 carbon atoms and is optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: hydroxyl, halogen, straight-chain or branched alkoxycarbonyl with up to 6 carbon atoms and phenyl and phenoxy, in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen, lower alkyl and lower alkoxy; or furthermore

R represents straight-chain or branched alkinyl with 2 to 8 carbon atoms; or furthermore

R represents cycloalkyl, cycloalkenyl, bicycloalkyl, bicycloalkenyl or tricycloalkyl with in each case up to 12 carbon atoms and in each case optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: straight-chain or branched alkyl with 1 to 4 carbon atoms, phenyl and the radical

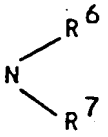


wherein

R^6 and R^7 have the abovementioned meaning; or furthermore

R represents aryl which has 6 to 10 carbon atoms and is optionally monosubstituted or polysubstituted by identical or different substituents,

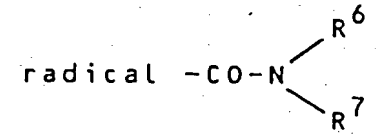
possible substituents being: halogen, nitro, carboxyl - also in the form of the carboxylate anion - in each case straight-chain or branched alkyl, alkoxy, halogenoalkyl, alkylcarbonyl, halogenoalkylcarbonyl and halogenoalkylcarbonylamino with in each case up to 4 carbon atoms and if appropriate up to 5 identical or different halogen atoms, in particular fluorine, chlorine or bromine,

and the radical 

wherein

R^6 and R^7 have the abovementioned meaning,

or furthermore

R represents furyl, thienyl, pyridyl or dithiolanyl, in each case optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: halogen, straight-chain or branched alkyl with up to 6 carbon atoms and the radical 

wherein

R^6 and R^7 have the abovementioned meaning,

or finally

R represents in each case straight-chain or branched alkoxy, alkenyloxy, alkinyloxy, alkoxycarbonyl or phenoxy, in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising phenyl and halogen,

R^1 and R^2, which are identical or different, independently of one another, represent hydrogen,

formyl or chlorosulphonyl, or represent phenyl, phenoxy or phenylsulphonyl, in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen,

and lower alkyl, or furthermore represent straight-chain or branched alkyl which has 1 to 12 carbon atoms and is optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: hydroxyl, mercapto, cyano and halogen,

and in each case straight-chain or branched alkoxy, alkoximino, alkylcarbonyl, alkylcarbonyloxy, alkoxycarbonyl, alkoxycarbonyloxy, alkylthiocarbonyloxy, halogenoalkylcarbonyloxy and alkylsulphonyloxy with in each case up to 6 carbon atoms and, where appropriate, up to 5 identical or different halogen atoms

; and furthermore alkylaminocarbonyloxy, dialkylaminocarbonyloxy, alkenylaminocarbonyloxy and dialkenylaminocarbonyloxy with in each case up to 6 carbon atoms in the individual straight-chain or branched alkyl or alkenyl parts; and furthermore cycloalkylaminocarbonyloxy with 3 to 7 carbon atoms in the cycloalkyl part, and phenylaminocarbonyloxy which is optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen,

and lower alkyl, and furthermore cycloalkyl which has 3 to 7 carbon atoms and is optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen,

and lower alkyl, phenyl which

is optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising nitro, halogen, lower alkyl and dioxyalkylene, furyl, tetrahydrofuryl, pyrazolyl, oxazolyl, isoxazolyl, thiazolyl, thiadiazolyl, oxadiazolyl, pyridyl and pyrimidinyl, in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen, and lower alkyl, and amino which is optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising in each case lower alkyl, halogenoalkylcarbonyl, halogenophenoxyalkylcarbonyl and halogenoalkylcarbonylaminoalkyl; or furthermore

R^1 and R^2 represent straight-chain or branched alkenyl, alkadienyl or alkinyl with in each case 3 to 8 carbon atoms and in each case optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: halogen, cyano and in each case straight-chain or branched alkoxy, alkylcarbonyl and alkoxycarbonyl with in each case up to 6 carbon atoms; or furthermore

R^1 and R^2 represent cycloalkyl or cycloalkenyl with in each case 3 to 8 carbon atoms and in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen, and lower alkyl; or furthermore represent piperidyl, pyridyl, thienyl, oxazolyl, isoxazolyl, thiazolyl, oxadiazolyl, thiadiazolyl, fluorenyl, phthalimidoyl or dioxanyl, in

each case optionally monosubstituted or polysubstituted by identical or different substituents and/or benzo-fused, possible substituents being: halogen,

cyano and in each case straight-chain or branched alkyl and alkanediyl with in each case 1 to 4 carbon atoms; or furthermore

R^1 and R^2 represent in each case straight-chain or branched alkoxy, alkylthio, alkylcarbonyl, alkoxycarbonyl, halogenoalkylcarbonyl or halogenoalkoxycarbonyl with in each case up to 6 carbon atoms and, where appropriate, up to 5 identical or different halogen atoms;

or furthermore

R^1 and R^2 represent amino or alkylideneimino which is optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: in each case straight-chain or branched alkyl, alkenyl, alkinyl, alkylcarbonyl and halogenoalkylcarbonyl with in each case up to 8 carbon atoms and, where appropriate, up to 5 identical or different halogen atoms;

or

R^1 and R^2, together with the nitrogen atom to which they are bonded, represent alkylideneamino, pyrrolidinyl, piperidinyl, piperidonyl, perhydroazepinyl, perhydroazocinyl, dihydropyrazolyl, dihydro- or tetrahydropyridyl, azabicyclononyl, morpholinyl, perhydro-1,3-oxazinyl, 1,3-oxazolidinyl, 1,4-piperazinyl, perhydro-1,4-diazepinyl, dihydro-, tetrahydro- or perhydroquinolyl or -isoquinolyl, indolyl or dihydro- or perhydroindolyl, in each case optionally monosubstituted or polysubstituted by identical or different substituents, possible substituents being: hydroxyl, halogen

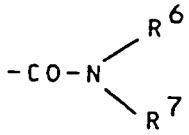
cyano and formyl; and in each case straight-chain or branched, where appropriate divalent alkyl, alkanediyl, alkoxy, dioxyalkylene, alkylcarbonyl, alkoxycarbonyl and halogenoalkylcarbonyl with in each case up to 8 carbon atoms, in each case straight-chain or branched alkylamino and dialkylamino with in each case up to 4 carbon atoms in the individual alkyl parts, phenyl, naphthyl, pyridyl and piperidinyl, in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen,

nitro and in each case lower alkyl, halogenoalkyl, alkoxy, alkylcarbonyl or alkoxycarbonyl, and straight-chain or branched cyclopropylalkyl, cyclohexylalkyl, piperidinylalkyl, phenylalkyl and phenylalkenyl with up to 4 carbon atoms in the particular alkyl or alkenyl parts and in each case optionally monosubstituted or polysubstituted by identical or different substituents from the group comprising halogen,

lower alkyl and halogenoalkylcarbonyl.

5. Amides as claimed in claim 3 in which

R represents hydrogen or chlorine; or furthermore

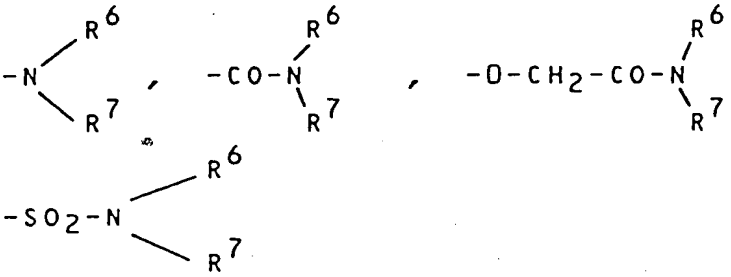
R represents the radical 

wherein

R^6 and R^7 are identical or different and independently of one another each represent hydrogen, methyl, ethyl, allyl, propargyl, but-1-in-3-yl, 3-methylbut-1-in-3-yl or 2-cyanoprop-2-yl; or furthermore

R represents straight-chain or branched alkyl with up to 15 carbon atoms; or furthermore
R represents straight-chain or branched halogenoalkyl with 1 to 6 carbon atoms and 1 to 9 identical or different halogen atoms, or furthermore

R represents straight-chain or branched alkyl which has 1 to 6 carbon atoms and is mono-, di- or trisubstituted by identical or different substituents, possible substituents being: hydroxyl, fluorine, chlorine, bromine, cyano, cyanato, thiocyanato, methoxy, ethoxy, methylthio, ethylthio, acetyl, propionyl, acetoxy, propionyloxy, methoxycarbonyl, ethoxycarbonyl, 1,1,3,3-tetrachloro-2-hydroxyprop-2-yloxy, 1,1,1,3,3-pentachloro-2-hydroxyprop-2-yloxy, chloroacetyl, dichloroacetyl, chloroacetoxy, dichloroacetoxy, pentachlorobutadien-1-ylcarbonyloxy and phenyl, phenoxy, phenylthio and thienyl, in each case optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising chlorine, methyl and methoxy; and furthermore cyclopropyl, cyclopentyl and cyclohexyl; and the radicals



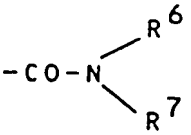
wherein

R^6 and R^7 are identical or different and in each case independently of one another represent hydrogen, methyl, ethyl, allyl, propargyl, but-1-in-3-yl, 3-methyl-but-1-in-3-yl or 2-cyanoprop-2-yl; or furthermore

R represents straight-chain or branched alkenyl which has 2 to 5 carbon atoms and is mono-, di- or trisubstituted by identical or different substituents, possible substituents being: hydroxyl, fluorine, chlorine, bromine, methoxycarbonyl, ethoxycarbonyl and phenyl and phenoxy, in each case optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising fluorine, chlorine, methyl and methoxy; or furthermore

R represents straight-chain or branched alkinyl with 2 to 5 carbon atoms; or furthermore

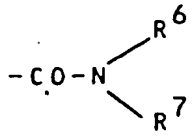
R represents cyclopropyl, cyclopentyl, cyclohexyl, cycloheptyl, cyclohexenyl, bicycloheptenyl, bicyclooctyl, bicyclononyl or tricyclodecyl, in each case optionally mono-, di-, tri-, tetra- or penta-substituted by identical or different substituents, possible substituents being: methyl, ethyl, phenyl

and the radical 

wherein

R^6 and R^7 are identical or different and in each case independently of one another represent hydrogen, methyl, ethyl, allyl, propargyl, but-1-in-3-yl, 3-methylbut-1-in-3-yl or 2-cyanoprop-2-yl, or furthermore

R represents phenyl which is optionally mono-, di- or trisubstituted by identical or different substituents, possible substituents being: fluorine, chlorine, bromine, iodine, nitro, methyl, ethyl, methoxy, ethoxy, carboxyl - also in the form of the carboxylate anion -, trifluoromethyl, chloroacetamido, dichloroacetamido and the radical



wherein

R^6 and R^7 are identical or different and in each case independently of one another represent hydrogen, methyl, ethyl, allyl, propargyl, but-1-in-3-yl, 3-methylbut-1-in-3-yl or 2-cyanoprop-2-yl; or furthermore

R represents furyl, thienyl, pyridyl or dithiolanyl, in each case optionally mono-, di- or trisubstituted by identical or different substituents, possible substituents being: chlorine, methyl, ethyl and the radical 

wherein

R^6 and R^7 are identical or different and in each case independently of one another represent hydrogen, methyl, ethyl, allyl, propargyl, but-1-in-3-yl, 3-methylbut-1-in-3-yl or 2-cyanoprop-2-yl; or finally

R represents methoxy, ethoxy, allyloxy, propargyloxy, butinyloxy, methoxycarbonyl, ethoxycarbonyl or phenyl, in each case optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising fluorine, chlorine, bromine and phenyl, and

R^1 and R^2, which are identical or different, independently of one another represent hydrogen, formyl or chlorosulphonyl, or represent phenyl, phenoxy or phenylsulphonyl, in each case optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising fluorine, chlorine, bromine or methyl; or furthermore represent straight-chain or branched alkyl

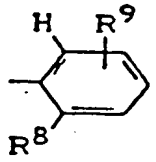
which has 1 to 8 carbon atoms and is optionally mono-, di- or trisubstituted by identical or different substituents, possible substituents being: hydroxyl, mercapto, cyano, fluorine, chlorine, bromine, methoxy, ethoxy, propoxy, butoxy, methoximino, ethoximino, acetyl, propionyl, acetoxy, propionyloxy, methoxycarbonyl, ethoxycarbonyl, methoxycarbonyloxy, ethoxycarbonyloxy, methylthiocarbonyloxy, ethylthiocarbonyloxy, chloroacetoxy, dichloroacetoxy, methylsulphonyloxy, ethylsulphonyloxy, methylaminocarbonyloxy, dimethylaminocarbonyloxy, ethylaminocarbonyloxy, diethylaminocarbonyloxy, propylaminocarbonyloxy, butylaminocarbonyloxy, allylaminocarbonyloxy, diallylaminocarbonyloxy and cyclohexylaminocarbonyloxy, and phenylaminocarbonyloxy which is optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising chlorine and methyl; and furthermore cyclopropyl, cyclopentyl, cyclohexyl and cycloheptyl, in each case optionally mono-, di-, tri-, tetra- or pentasubstituted by identical or different substituents from the group comprising chlorine and methyl; and phenyl which is optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising nitro, fluorine, chlorine, bromine, methyl and dioxymethylene, and furyl, tetrahydrofuryl, pyrazolyl, oxazolyl, isoxazolyl, thiazolyl, thiadiazolyl, oxadiazolyl, pyridyl and pyrimidinyl, in each case optionally mono- or disubstituted by identical or different substituents from the group comprising methyl, ethyl, propyl and chlorine; and amino which is optionally monosubstituted or disubstituted by identical or different substituents from the group comprising methyl, ethyl, chloroacetyl, dichloro-

acetyl, chlorophenoxyacetyl, dichloroacetamidomethyl and dichloroacetamidoethyl; or furthermore R^1 and R^2 represent straight-chain or branched alkenyl, alkadienyl or alkinyl with in each case 3 to 5 carbon atoms and in each case optionally monosubstituted or disubstituted by identical or different substituents from the group comprising chlorine, methoxy, ethoxy, acetyl, methoxycarbonyl, ethoxycarbonyl or cyano; or furthermore R^1 and R^2 represent cyclopropyl, cyclopentyl, cyclohexyl, cyclohexenyl or cyclooctyl, in each case optionally mono-, di-, tri-, tetra- or pentasubstituted by identical or different substituents from the group comprising chlorine and methyl; or furthermore R^1 and R^2 represent piperidyl, pyridyl, thienyl, oxazolyl, isoxazolyl, thiadiazolyl, fluorenyl, phthalimidoyl or dioxanyl, in each case optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising fluorine, chlorine, bromine, cyano, methyl, ethyl, propyl, propanediyl and butanediyl and/or benzo-fused; or furthermore R^1 and R^2 represent methoxy, ethoxy, propoxy, butoxy, methylthio, ethylthio, propylthio, butylthio, acetyl, chloroacetyl, dichloroacetyl, methoxycarbonyl, ethoxycarbonyl, chloroethoxycarbonyl or bromoethoxycarbonyl, and furthermore R^1 and R^2 represent amino or propylideneimino, optionally monosubstituted or disubstituted by identical or different substituents from the group comprising methyl, ethyl, allyl, propargyl, acetyl, chloroacetyl and dichloroacetyl, or R^1 and R^2, together with the nitrogen atom to which they are bonded, represent methylideneimino, ethylideneimino, propylideneimino, pyrrolidinyl,

piperidinyl, piperidonyl, perhydroazepinyl, perhydroazocinyl, dihydropyrazolyl, dihydro- or tetrahydropyridyl, azabicyclononyl, morpholinyl, perhydro-1,3-oxazinyl, 1,3-oxazolidinyl, 1,4-piperazinyl, perhydro-1,4-diazepinyl, dihydro-, tetrahydro- or perhydroquinolyl or -isoquinolyl, indolyl or dihydro- or perhydroindolyl, in each case optionally mono-, di-, tri-, tetra- or penta-substituted by identical or different substituents, possible substituents being: hydroxyl, fluorine, chlorine, bromine, cyano, formyl, methyl, ethyl, propyl, butyl, ethanediyl, propanediyl, methoxy, ethoxy, propoxy, butoxy, dioxyethylene, dioxypropylene, dioxybutylene, acetyl, propionyl, chloroacetyl, dichloroacetyl, α-chloropropionyl, methoxycarbonyl, ethoxycarbonyl, methylamino, ethylamino, dimethylamino, diethylamino and phenyl, naphthyl or piperidinyl, in each case optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising fluorine, chlorine, bromine, nitro, methyl, ethyl, methoxy, ethoxy, trifluoromethyl, acetyl, propionyl, methoxycarbonyl and ethoxycarbonyl, and cyclopropylmethyl, cyclohexylmethyl, piperidinylethyl, piperidinylpropyl, benzyl, phenylethyl and phenylpropenyl, in each case optionally mono-, di- or trisubstituted by identical or different substituents from the group comprising chlorine, methyl, chloroacetyl and dichloroacetyl.

6. Any new compound substantially as herein described and exemplified in any one of the examples in table 1.

7. Herbicidal sulphonyliso (thio) urea derivatives as claimed in claim 3 in which

R^3 represents the radical 

wherein

R^8 and R^9 are identical or different and represent hydrogen, halogen, cyano, nitro or C_1-C_6-alkyl [which is optionally substituted by fluorine, chlorine, bromine, cyano, carboxyl, C_1-C_4-alkoxycarbonyl, C_1-C_4-alkyl-amino-carbonyl, di-(C_1-C_4-alkyl)-amino-carbonyl, hydroxyl, C_1-C_4-alkoxy, formyloxy, C_1-C_4-alkyl-carbonyloxy, C_1-C_4-alkoxy-carbonyloxy, C_1-C_4-alkylamino-carbonyloxy, C_1-C_4-alkylthio, C_1-C_4-

alkylsulphinyl, C_1-C_4-alkylsulphonyl, di-(C_1-C_4-alkyl)-aminosulphonyl, C_3-C_6-cycloalkyl or phenyl], or represent C_2-C_6-alkenyl [which is optionally substituted by fluorine, chlorine, bromine, cyano, C_1-C_4-alkoxycarbonyl, carboxyl or phenyl], or represent C_2-C_6-alkinyl [which is optionally substituted by fluorine, chlorine, bromine, cyano, C_1-C_4-alkoxy-carbonyl, carboxyl or phenyl], or represent C_1-C_4-alkoxy [which is optionally substituted by fluorine, chlorine, bromine, cyano, carboxyl, C_1-C_4-alkoxyimino-C_1-C_4-alkyl, C_1-C_4-alkoxy-carbonyl, C_1-C_4-alkoxy, C_1-C_4-alkylthio, C_1-C_4-alkylsulphinyl or C_1-C_4-alkylsulphonyl], or represent C_1-C_4-alkylthio [which is optionally substituted by fluorine, chlorine, bromine, cyano, carboxyl, C_1-C_4-alkoxycarbonyl, C_1-C_4-alkylthio, C_1-C_4-alkylsulphinyl or C_1-C_4-alkylsulphonyl], or represent C_3-C_6-alkenyloxy [which is optionally substituted by fluorine, chlorine, bromine, cyano or C_1-C_4-alkoxy-carbonyl], or represent C_2-C_6-alkenylthio [which is optionally substituted by fluorine, chlorine, bromine, cyano, nitro, C_1-C_3-alkylthio or C_1-C_4-alkoxycarbonyl], C_3-C_6-alkinyloxy or C_3-C_6-alkinylthio, or represent the radical $-S(O)_p-R^{10}$,

wherein

p represents the number 1 or 2 and

R^{10} represents C_1-C_4-alkyl [which is optionally substituted by fluorine, chlorine, bromine, cyano or C_1-C_4-alkoxy-carbonyl], C_3-C_6-alkenyl, C_3-C_6-alkinyl, C_1-C_4-alkoxy, C_1-C_4-alkoxy-amino, C_1-C_4-alkoxy-C_1-C_4-alkylamino, C_1-C_4-alkylamino or di(C_1-C_4-alkyl)-amino,

or furthermore

R^8 and R^9 represent phenyl or phenoxy, or represent

C_1-C_4-alkylcarbonylamino, C_1-C_4-alkoxycarbonylamino, C_1-C_4-alkylamino-carbonylamino, di-(C_1-C_4-alkyl)-amino-carbonylamino, or represent the radical -CO-R^{11},

wherein

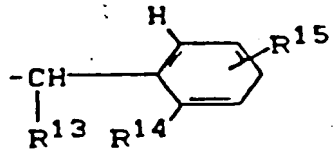
R^{11} represents C_1-C_6-alkyl, C_1-C_6-alkoxy, C_1-C_4-alkoxyimino-C_1-C_4-alkoxy, C_3-C_6-cycloalkoxy, C_3-C_6-alkenyloxy, C_1-C_4-alkylthio, C_1-C_4-alkylamino, C_1-C_4-alkoxyamino, C_1-C_4-alkoxy-C_1-C_4-alkyl-amino or di-(C_1-C_4-alkyl)amino [which are optionally substituted by fluorine and/or chlorine], or furthermore R^8 and R^9 represent C_1-C_4-alkylsulphonyl-C_1-C_4-alkylsulphonyloxy, di-(C_1-C_4-alkyl)-aminosulphonylamino or represent the radical -CH=N-R^{12},

wherein

R^{12} represents C_1-C_6-alkyl which is optionally substituted by fluorine, chlorine, cyano, carboxyl, C_1-C_4-alkoxycarbonyl, C_1-C_4-alkylthio, C_1-C_4-alkylsulphinyl or C_1-C_4-alkylsulphonyl, or represents benzyl which is optionally substituted by fluorine or chlorine, or represents C_3-C_6-alkenyl or C_3-C_6-alkinyl which is optionally substituted by fluorine or chlorine, or represents phenyl which is optionally substituted by fluorine, chlorine, bromine, C_1-C_4-alkyl, C_1-C_4-alkoxy, trifluoromethyl, trifluoromethoxy or trifluoromethylthio, or represents C_1-C_6-alkoxy, C_3-C_6-alkenoxy, C_3-C_6-alkinoxy or benzyloxy which is optionally substituted by fluorine and/or chlorine, or represents amino, C_1-C_4-alkylamino, di-(C_1-C_4-alkyl)amino, phenylamino, C_1-C_4-alkyl-carbonyl-amino, C_1-C_4-alkoxy-carbonylamino, or C_1-C_4-alkyl-sulphonylamino, or represents phenylsulphonylamino which is optionally substitu-

ted by fluorine, chlorine, bromine or methyl;

and wherein, furthermore,

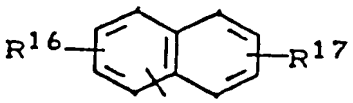
R^3 represents the radical 

wherein

R^{13} represents hydrogen or C_1-C_4-alkyl and

R^{14} and R^{15} are identical or different and represent hydrogen, fluorine, chlorine, bromine, nitro, cyano, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine], C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine], carboxyl, C_1-C_4-alkoxycarbonyl, C_1-C_4-alkylsulphonyl or di-(C_1-C_4-alkyl)-aminosulphonyl;

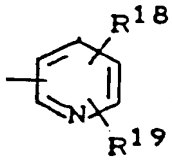
or wherein, furthermore,

R^3 represents the radical 

wherein

R^{16} and R^{17} are identical or different and represent hydrogen, fluorine, chlorine, bromine, nitro, cyano, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine] or C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine];

or wherein, furthermore,

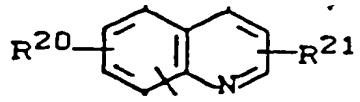
R^3 represents the radical 

wherein

R^{18} and R^{19} are identical or different and represent hydrogen, fluorine, chlorine, bromine, nitro, cyano, C_1-C_4-alkyl [which is optionally sub-

stituted by fluorine and/or chlorine] or C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine], or represent C_1-C_4-alkylthio, C_1-C_4-alkylsulphinyl or C_1-C_4-alkylsulphonyl [which are optionally substituted by fluorine and/or chlorine], or represent di-(C_1-C_4-alkyl)-aminosulphonyl or C_1-C_4-alkoxy-carbonyl;

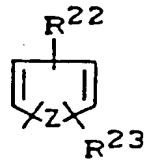
or wherein, furthermore,

R^3 represents the radical 

wherein

R^{20} and R^{21} are identical or different and represent hydrogen, fluorine, chlorine, bromine, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or bromine] or C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine], or represent C_1-C_4-alkylthio, C_1-C_4-alkylsulphinyl or C_1-C_4-alkylsulphonyl [which are optionally substituted by fluorine and/or chlorine], or represent di-(C_1-C_4-alkyl)-aminosulphonyl;

or wherein, furthermore,

R^3 represents the radical 

wherein

R^{22} and R^{23} are identical or different and represent hydrogen, fluorine, chlorine, bromine, cyano, nitro, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine], C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine], C_1-C_4-alkylthio, C_1-C_4-alkylsulphinyl or C_1-C_4-alkylsulphonyl [which is option-

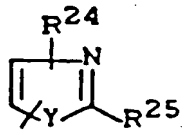
ally substituted by fluorine and/or chlorine], di-(C_1-C_4-alkyl)-amino-sulphonyl or C_1-C_4-alkoxy-carbonyl and

Z represents oxygen, sulphur or the grouping N-Z^1,

wherein

Z^1 represents hydrogen, C_1-C_4-alkyl [which is optionally substituted by fluorine, chlorine, bromine or cyano], C_3-C_6-cycloalkyl, benzyl, phenyl [which is optionally substituted by fluorine, chlorine, bromine or nitro], C_1-C_4-alkyl-carbonyl, C_1-C_4-alkoxy-carbonyl or di-(C_1-C_4-alkyl)-amino-carbonyl;

or wherein, furthermore,

R^3 represents the radical 

wherein

R^{24} represents hydrogen, C_1-C_5-alkyl or halogen,

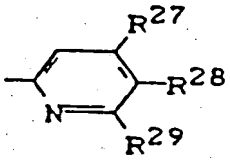
R^{25} represents hydrogen or C_1-C_5-alkyl and

Y represents sulphur or the grouping N-R^{26},

wherein

R^{26} represents hydrogen or C_1-C_5-alkyl;

and wherein, furthermore,

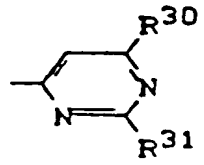
R^4 represents the radical 

wherein

R^{27} and R^{29} are identical or different and represent hydrogen, fluorine, chlorine, bromine, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine] or C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine], with the proviso that at least one of the radicals R^{27} and R^{29} is other than hydrogen, and

R^{28} represents hydrogen, fluorine, chlorine, bromine, cyano or C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine];

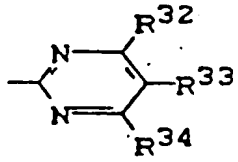
or wherein, furthermore,

R^4 represents the radical 

wherein

R^{30} and R^{31} are identical or different and represent hydrogen, fluorine, chlorine, bromine, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine], C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine], C_1-C_4-alkylamino or di-(C_1-C_4-alkyl)-amino, with the proviso that at least one of the radicals R^{30} and R^{31} is other than hydrogen;

or wherein, furthermore,

R^4 represents the radical 

wherein

R^{32} represents hydrogen, fluorine, chlorine, bromine, hydroxyl or C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine] or C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine],

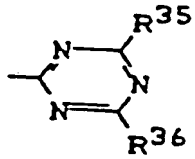
R^{33} represents hydrogen, fluorine, chlorine, bromine, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine], cyano, formyl, C_1-C_4-alkyl-carbonyl or C_1-C_4-alkoxy-carbonyl and

R^{34} represents hydrogen, fluorine, chlorine,

bromine, hydroxyl, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine], C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine], amino, C_1-C_4-alkylamino or di-(C_1-C_4-alkyl)-amino, or

R^{33} and R^{34} together represent C_3-C_4-alkanediyl;

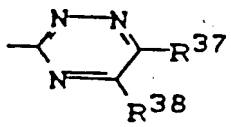
or wherein, furthermore,

R^4 represents the radical 

wherein

R^{35} and R^{36} are identical or different and represent fluorine, chlorine, bromine, hydroxyl, C_1-C_4-alkyl [which is optionally substituted by fluorine and/or chlorine], C_3-C_5-cycloalkyl, C_1-C_4-alkoxy [which is optionally substituted by fluorine and/or chlorine] or C_1-C_4-alkylthio, or represent C_1-C_4-alkyl-amino or di-(C_1-C_4-alkyl)-amino;

and wherein, furthermore,

R^4 represents the radical 

wherein

R^{37} and R^{38} are identical or different and represent hydrogen, methyl or methoxy;

and wherein, furthermore,

R^5 represents C_1-C_{12}-alkyl [which is optionally substituted by fluorine, chlorine, cyano, C_1-C_4-alkoxy, C_1-C_4-alkylthio, C_1-C_4-alkylsulphinyl, C_1-C_4-alkylsulphonyl, C_1-C_4-alkyl-carbonyl, C_1-C_4-alkoxy-carbonyl, C_1-C_4-alkylaminocarbonyl or di-(C_1-C_4-alkyl)-aminocarbonyl], or repres-

ents C_3-C_6-alkenyl, C_3-C_6-alkinyl, C_3-C_6-cycloalkyl, C_3-C_6-cycloalkyl-C_1-C_2-alkyl or phenyl-C_1-C_2-alkyl [which is optionally substituted in the phenyl part by fluorine, chlorine, nitro, cyano, C_1-C_4-alkyl, C_1-C_4-alkoxy or C_1-C_4-alkoxy-carbonyl],

or wherein, furthermore,

R^5 represents a phenyl radical which is optionally substituted by one or more radicals from the series comprising halogen [such as, in particular, fluorine, chlorine, bromine and iodine], cyano, nitro, hydroxy, carboxy, C_1-C_6-alkyl [which is optionally substituted by fluorine, chlorine, bromine, nitro, cyano, hydroxyl, carboxyl, C_1-C_4-alkoxy-carbonyl, C_1-C_4-alkoxy, C_1-C_4-alkylthio or phenyl], C_3-C_6-cycloalkyl, C_1-C_4-alkoxy [which is optionally substituted by fluorine, chlorine, bromine, cyano, carboxy, C_1-C_4-alkoxy, C_1-C_4-alkylthio or C_1-C_4-alkoxy-carbonyl], C_1-C_4-alkylthio [which is optionally substituted by fluorine, chlorine, bromine, cyano, carboxyl, or C_1-C_4-alkoxy-carbonyl], amino, C_1-C_4-alkyl-amino and di-(C_1-C_4-alkyl)-amino [which are optionally substituted by fluorine, chlorine, bromine, cyano, carboxyl, C_1-C_4-alkoxy or C_1-C_4-alkoxy-carbonyl], C_1-C_4-alkyl-carbonylamino, C_1-C_4-alkoxy-carbonylamino, (di)-C_1-C_4-alkyl-amino-carbonyl-amino, formyl, C_1-C_4-alkyl-carbonyl, benzoyl, C_1-C_4-alkoxy-carbonyl, phenoxy-carbonyl, benzyloxycarbonyl, phenyl [which is optionally substituted by fluorine, chlorine, bromine, cyano, nitro, hydroxyl or methyl], phenoxy, phenylthio, phenylsulphonyl, phenylamino and phenylazo [which are optionally substituted by fluorine, chlorine, bromine, cyano, nitro, methyl and/or trifluoromethyl], pyridoxy and pyrimidoxy

[which are optionally substituted by fluorine, chlorine, bromine, cyano, nitro, methyl and/or trifluoromethyl], C_1-C_4-alkyl-carbonyloxy, C_1-C_4-alkoxy-carbonyloxy, C_1-C_4-alkyl-amino-carbonyloxy and di-(C_1-C_4-alkyl)-amino-carbonyl-oxy, or which is optionally fused by an alkylene chain [which is optionally branched and/or interrupted by one or more oxygen atoms] or a benzo radical [which is optionally substituted by fluorine, chlorine, bromine, cyano, nitro, methyl and/or trifluoromethyl];

or wherein, furthermore,

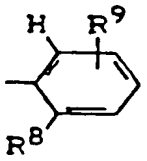
R^5 represents a five- or six-membered hetero-aromatic ring which contains 1 to 3 nitrogen atoms and/or an oxygen or sulphur atom and which is optionally benzo-fused and/or substituted by fluorine, chlorine, bromine, cyano, nitro, C_1-C_3-alkyl or C_1-C_3-alkoxy [the latter being optionally substituted by fluorine and/or chlorine];

and wherein, furthermore,

X represents oxygen or sulphur and

M represents hydrogen or one equivalent of sodium, potassium, magnesium, calcium, aluminium, manganese, iron, cobalt or nickel.

8. Herbicidal sulphonyliso (thio) urea derivatives as claimed in claim 3 in which

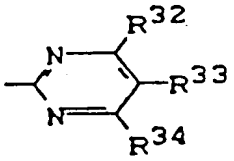
R^3 represents the radical 

wherein

R^8 represents fluorine, chlorine, bromine, methyl, trifluoromethyl, methoxy, difluoromethoxy, trifluoromethoxy, C_1-C_3-alkylthio, difluoromethylthio, trifluoromethylthio, C_1-C_3-alkylsulphinyl, C_1-C_3-alkylsulphonyl, dimethylaminosulphonyl, diethylaminosulphonyl, N-methoxy-N-methylaminosulphonyl, phenyl, phenoxy, C_1-C_3-alkoxy-carbonyl or C_1-C_3-alkyl-aminocarbonyl and

R^9 represents hydrogen;

and wherein, furthermore,

R^4 represents the radical 

wherein

R^{32} represents hydrogen, fluorine, chlorine, bromine, hydroxyl, C_1-C_3-alkyl, C_1-C_3-alkoxy or difluoromethoxy,

R^{33} represents hydrogen, chlorine, bromine or methyl and

R^{34} represents C_1-C_3-alkyl, hydroxy, fluorine, chlorine, bromine or C_1-C_3-alkoxy;

and wherein, furthermore,

R^5 represents C_1-C_8-alkyl [which is optionally substituted by fluorine, chlorine, cyano, C_1-C_2-alkoxy or C_1-C_2-alkoxy-carbonyl], or represents C_3-C_4-alkenyl, C_3-C_4-alkinyl or benzyl [which is optionally substituted in the phenyl part by fluorine, chlorine, nitro, cyano, methyl, methoxy or C_1-C_2-alkoxycarbonyl], or

R^5 represents a phenyl radical, which is optionally substituted by one or two radicals from the series comprising fluorine, chlorine, bromine, iodine, cyano, nitro, hydroxyl, carboxyl, C_1-C_3-alkoxy-carbonyl, C_1-C_4-alkyl, trifluoromethyl, hydroxymethyl, methoxycarbonylmethyl, phenyl-C_1-C_3-alkyl, cyclohexyl, C_1-C_3-alkoxy, trifluoromethoxy, C_1-C_3-alkylthio, trifluoromethylthio, dimethylamino, amino, acetylamino, methylaminocarbonyl, formyl, acetyl, benzoyl, phenyl, hydroxyphenyl, phenoxy [which is optionally substituted by chlorine and/or trifluoromethyl], phenylamino, phenylazo and pyridoxy [which is optionally substituted by chlorine and/or trifluoromethyl], or which is optionally benzo-fused;

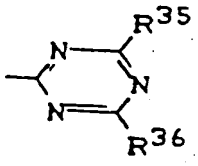
and wherein, furthermore,

X represents oxygen or sulphur and

M represents hydrogen or one equivalent of sodium, potassium or calcium;

or wherein, furthermore,

(B) R^3, R^5, X and M have the meaning given above under (A) and

R^4 represents the radical 

wherein

R^{35} represents fluorine, chlorine, cyclopropyl, C_1-C_2-alkyl, C_1-C_2-alkoxy or C_1-C_2-alkylthio and

R^{36} represents fluorine, chlorine, cyclopropyl, C_1-C_2-alkyl, C_1-C_2-alkoxy, C_1-C_2-alkylamino or di-(C_1-C_2-alkyl)-amino.

9. Any new compound substantially as herein described and exemplified in any one of the examples in table 2.

10. Method of selectively combating weeds in crops of useful plants, characterized in that an active compound combination according to any one of Claims 3 to 9 is allowed to act on the weeds or their environment.

11. Use of an active compound combination according to any one of Claims 3 to 9 for selectively combating weeds in crops of useful plants.

12. Process for the preparation of agents for selectively combating weeds in crops of useful plants, characterized in that active compound combinations according to any one of Claims 3 to 9 are mixed with extenders and/or surface-active agents.

JOHN & KERNICK
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1987 -05- 27